CAFÉ ELITE

TECHNICAL MANUAL

TM_EN

Part No.: 1740056_02

COFFEE QUEEN ORIGINAL

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Some important information may appear in textboxes seen below

IMPORTANT!
INFO.

CAUTION!
INFO.

More INFO.

Note INFO.

Introduction

Thank you for choosing a Café Elite vending machine.
We hope you enjoy it !

- Read the user guide before using the machine.
- This guide contains important instructions for proper and safe use of the vending machine.
- Always keep this guide close at hand for future reference.

Warnings

- Never immerse the machine, plug or mains cable in water because there is a danger of electric shock.
- The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure they do not play with the appliance.
- Do not use the machine if the mains cable, plug is damaged or the machine has fallen down.
- If the mains cable is damaged it must be replaced by the manufacturer, service agent or similarly qualified persons in order to avoid a hazard.
- Only plug the machine into a properly installed earthed safety socket whose line voltage matches the technical data for the machine.

Precautions

- Do not use the machine outdoors so it can be exposed to weather (rain, snow, frost). It will cause material damage to the machine.
- Do not try to open the machine or repair it in any way. To avoid danger only have the machine repaired in a technical workshop, Service Centre or by a qualified person.
- Remove the mains cable from the socket when the machine is not in use for longer periods. To do this, pull the plug not the cable.
- This appliance must be placed in a horizontal position which is resistant to any water that may leak.
- Place the machine out of the reach of children.
- Position the mains cable so that people cannot trip over it. Keep it away from sharp edges and heat sources.
- The new hose-sets supplied with this appliance are to be used, old hose-sets must not be re-used.
- This appliance is not suitable for installation in an area where a water jet could be used.
- This appliance must not be cleaned by a water jet.

Intended use

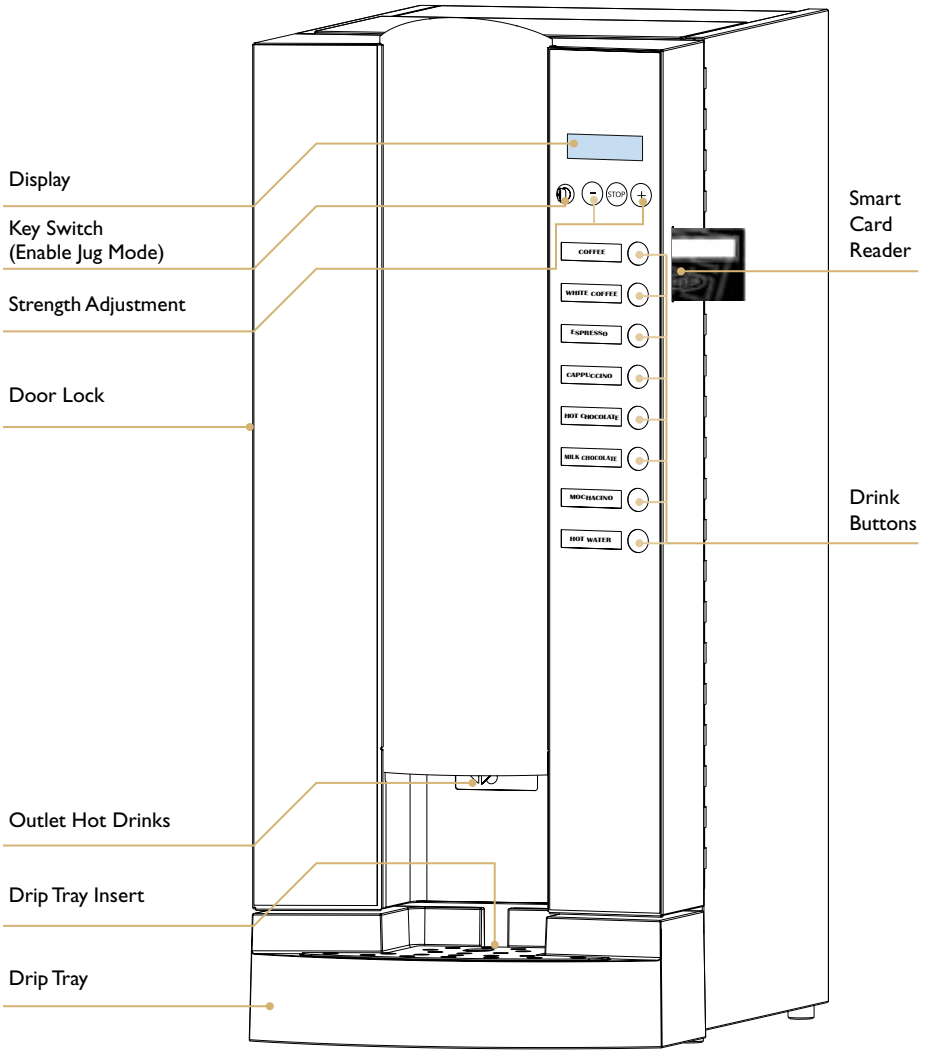
- This appliance is intended to be used in household and similar applications such as:
  - Staff kitchen areas in shops.
  - Offices and other commercial working environments.
  - On agricultural estates.
  - By clients in hotels, motels and other residential type environments.
  - Bed and breakfast type environments.
- For the optimal performance of the machine these parameters shall not be exceeded:
  - Maximum permissible inlet water pressure : 800KPa (8Bar)
  - Minimum permissible inlet water pressure: 200KPa (2Bar)
  - Maximum working temperature: 40 °C
  - Minimum working temperature: 10 °C

Facts & weight

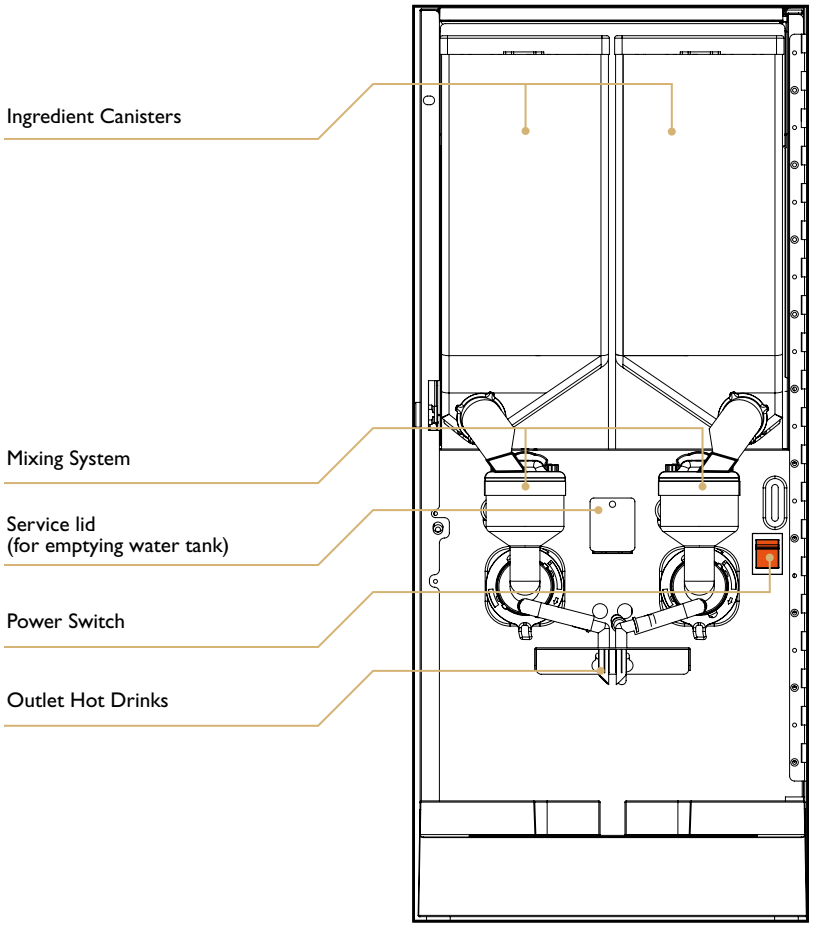
MODEL/NAME	CAFÉ ELITE II	CAFÉ ELITE III	CAFÉ ELITE IV
Built-in grinder	None	None	None
Function for selecting jug	Yes	Yes	Yes
Drink options	8	8	8
Ingredient canister	2	3	4
Bean hopper	None	None	None
Brewing mechanism	None	None	None
Cleaning function by smart card	Yes	Yes	Yes
Electronic temperature control	Yes	Yes	Yes
Adjustable coffee strength	Yes	Yes	Yes
Illumination of cup during brewing	None	None	None
Base cabinet: large grounds container	None	None	None
Energy saving mode	Yes	Yes	Yes
Height, Width, Depth	735, 310, 515mm	735, 310, 515mm	735, 310, 515mm
Tank volume	5Litres	5Litres	5Litres
Power supply	220-230VAC 50/60Hz/2200W	220-230VAC 50/60Hz/2200W	220-230VAC 50/60Hz/2200W
Cold water connection	½" External thread	½" External thread	½" External thread
Water purification filter	None	None	None

MODEL/NAME	WEIGHT
Café Elite II	30kg
Café Elite III	30kg
Café Elite IV	30kg

Front exterior



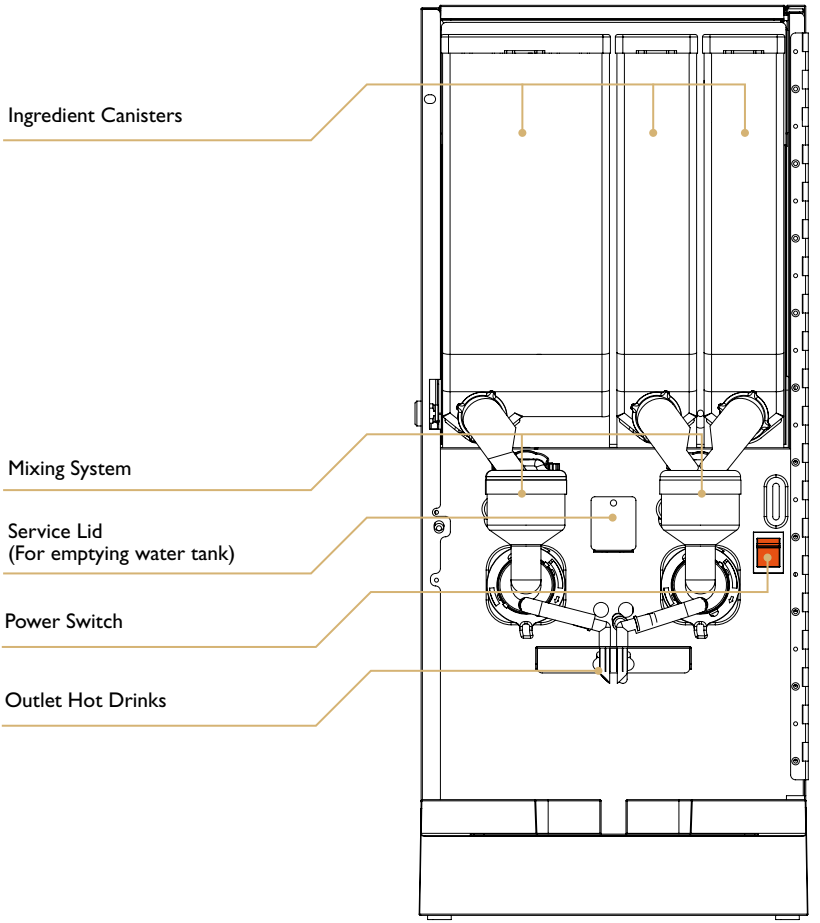
Front interior of Elite II



Ingredient canisters

DETAIL	INGREDIENTS	WIDTH	DEPTH	HEIGHT	CAPACITY	CUPS/UNIT
Canister	Coffee	137mm	335mm	225mm	5.4L	~675 cups
Canister	Topping	137mm	335mm	225mm	5.4L	~540 cups

Front interior of Elite III

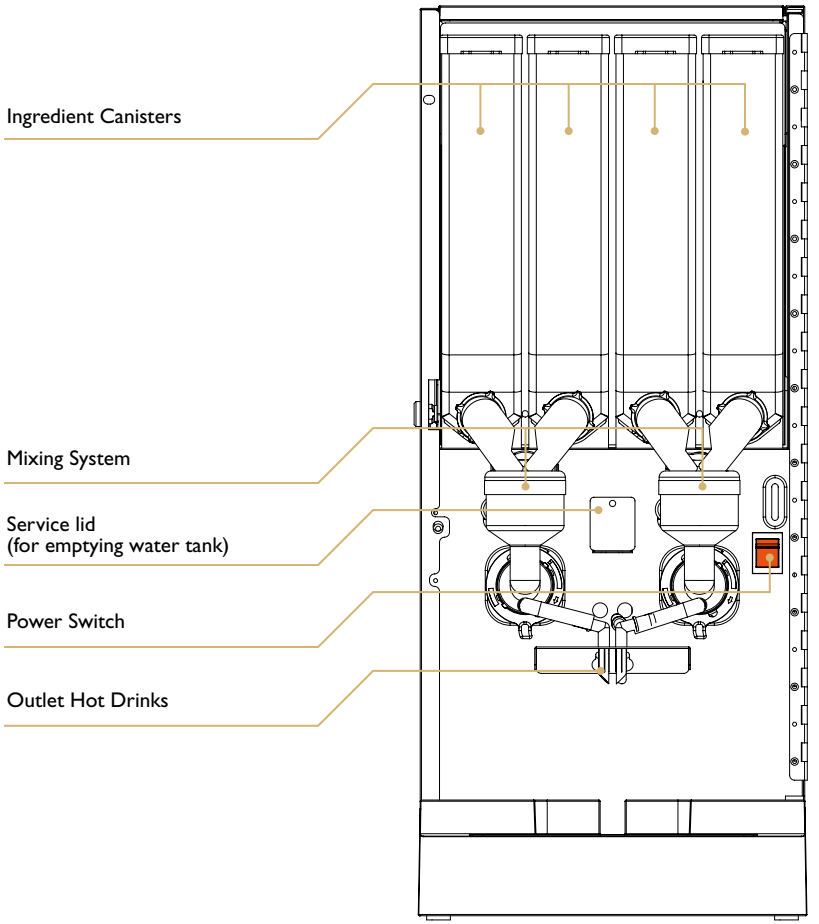


Ingredient canisters

DETAIL	INGREDIENTS	WIDTH	DEPTH	HEIGHT	CAPACITY	CUPS/UNIT
Canister	Coffee	137mm	335mm	225mm	5.4 L	~675 cups
Canister	Chocolate	67mm	335mm	225mm	2.7 L	~135 cups
Canister	Topping	67mm	335mm	225mm	2.7 L	~270 cups

OVERVIEW OF COMPONENTS

Front interior of Elite IV

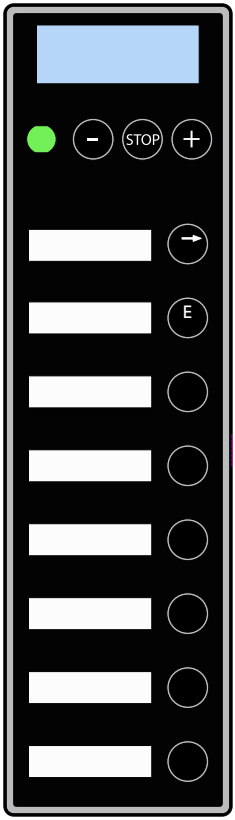


Ingredient canisters

DETAIL	INGREDIENTS	WIDTH	DEPTH	HEIGHT	CAPACITY	CUPS/UNIT
Canister	Coffee	67mm	335mm	225mm	2.7 L	~338 cups
Canister	Espresso	67mm	335mm	225mm	2.7 L	~600 cups
Canister	Chocolate	67mm	335mm	225mm	2.7 L	~135 cups
Canister	Topping	67mm	335mm	225mm	2.7 L	~270 cups

Membrane switch navigation

Button functions



Press the BACK button if you want to leave the submenu and go back in the menu.

Press the ENTER button to select a menu function, confirm a set value or a setting. Confirm the new setting by pressing the E-button.

Press the MINUS button if you want to decrease a value or go back in the menu.

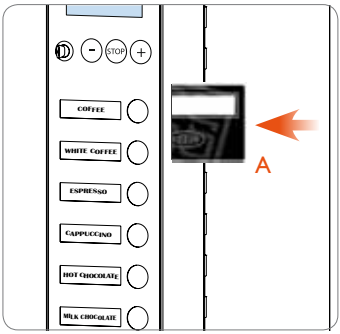
Press the STOP button if you want to return to the start menu.
To activate Energy Saving Mode press and hold the STOP button for 5 seconds. Display will show Energy Saving Mode. To return to normal mode press and hold the STOP button for 5 seconds while the machine is in energy saving mode.

Press the PLUS button if you want to increase a value or go forward in the menu.

ENERGY SAVING MODE	the machine switches off the front display and decreases the temperature in the water tank to 65°C.

Technical service card

- Technical service card is used for example cleaning of the machine and change different settings.
- The smart card is supplied by your dealer.

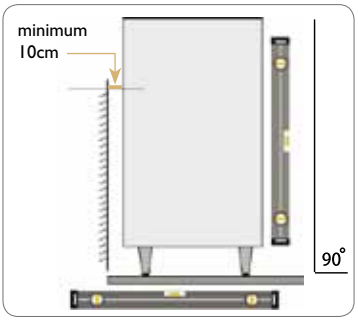


- Insert the technical service card with the chip facing towards the back of the machine. (See fig.A)

- The display will show the Service Menu, Clean Machine and you can now browse forwards through the menu.

- To use the machine again remove the technical service card and store it in a safe place.

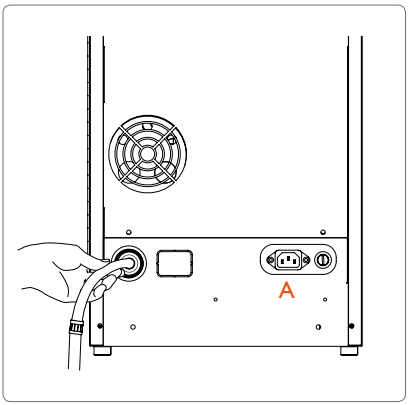
Positioning



- Place the machine on a flat horizontal surface that will support the weight of the machine.
- Connect the electrical plug to a separate grounded wall socket.

Note	Make sure air is able to circulate behind the machine (minimum 10cm).

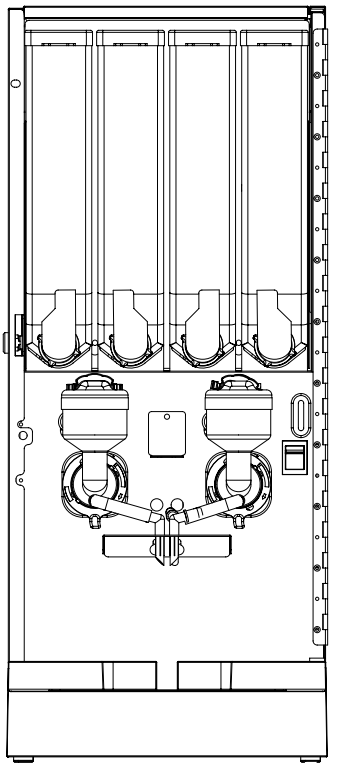
Machine startup procedure



- Connect the water to the top cabinet on the machine.
- Connect the supplied water hose to the cold water connection using a ½" R-connection. When pushing the machine into position make sure there is no interference to the hose to ensure proper water flow.
- If the inlet hose is new, flush the system with water first to remove copper shavings. These can damage the inlet valve.
- The new tube set supplied with the appliance must be used. Old tubes may not be re-used. Connection to a closable valve is recommended.
- Min. water pressure; 2 bar (200kPa).
- Max. water pressure: 8 bar (800kPa).
- Open the water tap.
- Connect the mains cable to the machine (A) and insert the plug to a earthed wall socket.
- Switch on the power switch on the rear of the machine. See figure.
- The display indicates **Low Water Level Press Enter Key** Press the E button.
- The water tank will now automatically fill with 5 litres of water. The element will not be powered until the water reaches the level sensor.
- Set temperature is 85° Celsius.
- Once the water heating is complete "Low temp" text will disappear from the display. (The display text will start to rotate between these two screens **COFFEE QUEEN** and **AT YOUR SERVICE**)

Fill ingredient canisters

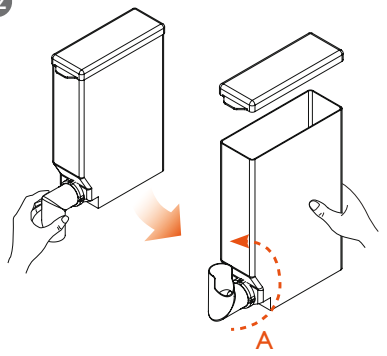
01



▲ Open the door.

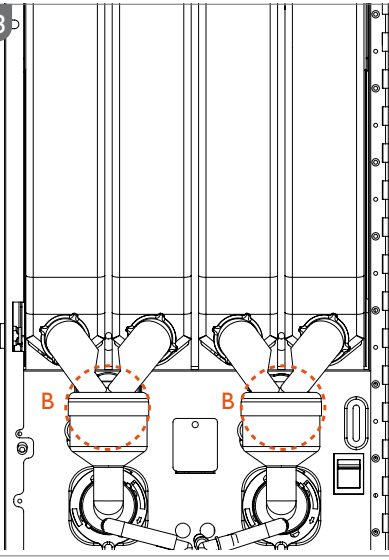
▶ Reassembly canisters.
When placing the ingredient canisters, Ensure that the openings of the canister chutes point down toward the mixing bowl (B).

02

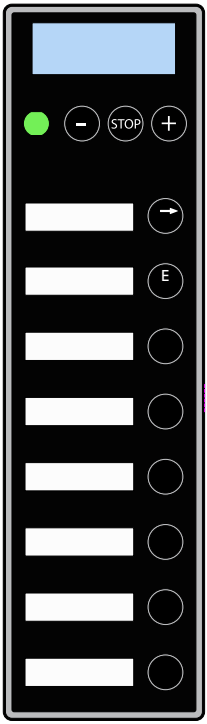


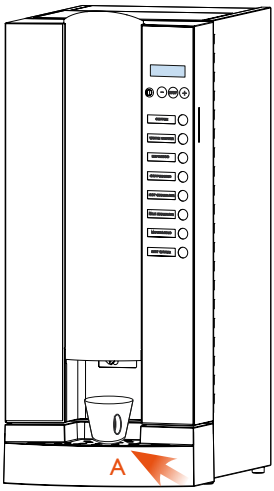
▲ Remove the ingredient canisters to avoid spilling in the machine and fill with ingredients .
When filling the ingredients, keep the opening of the canister chute upwards (A).

03



Dispensing drinks in a cup





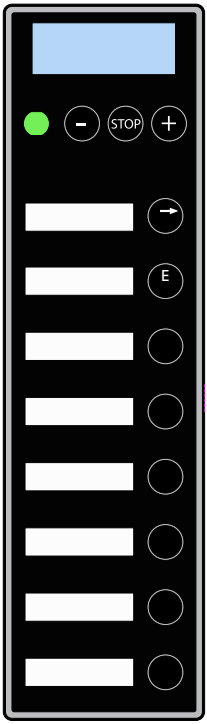
- Place a cup under the outlet for hot drinks. (See fig. A)
- The strength of the drink is set to default. If you would like to increase or decrease the strength then follow the steps in the section below.

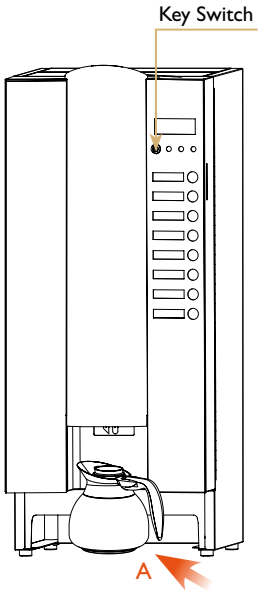
  Stronger drink, Press the + button

  or

  Weaker drink, Press the − button
- Choose drink.
- The display shows: **Please wait...** and the cup light goes on.
- Wait until the cup light switches off and the text **Please wait...** has disappeared from the display before removing the cup.

Dispensing drinks in a jug





- Turn key switch to enable jug mode. (See fig. A)
- Place a jug under the outlet for hot drinks.
- The strength of the drink is set to default. If you would like to increase or decrease the strength then follow the steps in the section below.

  Stronger drink, Press the + button

  or

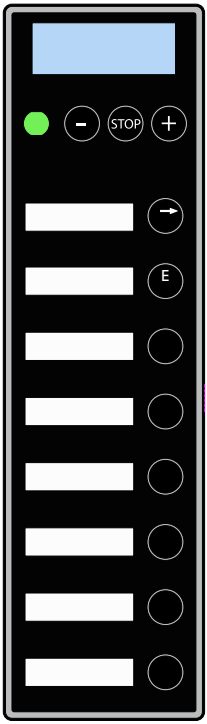
  Weaker drink, Press the − button
- Choose drink.
- Wait until the cup light switches off and the message **Please wait...** has disappeared from the display before removing the jug.
- You can abort the jug process by pressing STOP button any time during the process, it will finish the drink in process before complete stop.
- Turn back the key switch to its original position to exit jug mode.

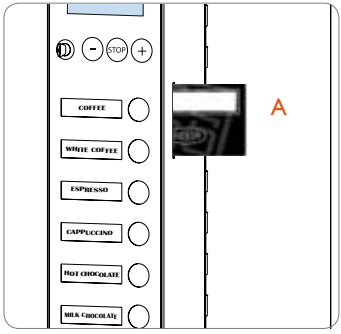
Daily cleaning

Automatic rinsing of the mixing bowl

Cleaning means rinsing with water and rotating the whipper.

Cleaning of the mixing bowl should be performed once per day.





- Put a container that holds at least 0.5 litres under the outlet for hot drinks.
- Insert smart card in the card reader (A).
- Move through the menu until the display shows **Service Menu Clean Machine**

  Press the E button.
- Move through the menu until the display shows **Service Menu Clean Mixer**

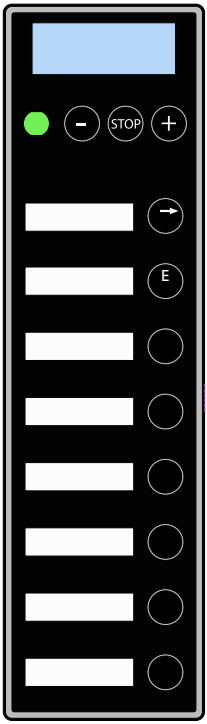
  Press the E button.
- The machine will now clean the mixing bowls for 5 seconds.
- Remove smart card.

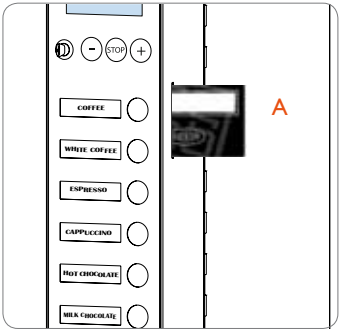
Note	Repeat the cleaning procedures 2-3 times to get a better cleaning effect.

Daily cleaning

Automatic cleaning of dispenser valves

Cleaning entails that the valves "knock" off any lime scale and other particles that may get stuck in the cylinders and flushing them with water.



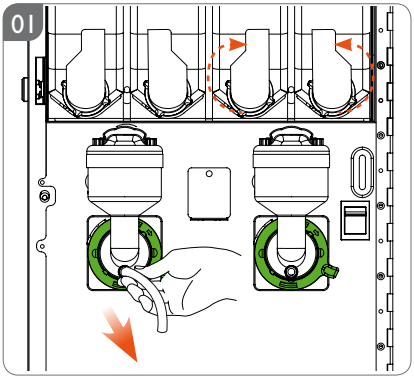


- Put a container under outlet for hot drinks.
- Insert smart card in the card reader (A).
- Move through the menu until the display shows **Service Menu / Clean Machine**
  Press the E button.
- Move through the menu until the display shows **Service Menu / Clean Valves**
  Press the E button.
- Dispenser valves will now start to open and close with 3 pulses/second for a max of 6 seconds. Repeat the procedure 2 - 3 times.
- Remove smart card.

Note	Repeat the cleaning procedures 2-3 times to get a better cleaning effect.

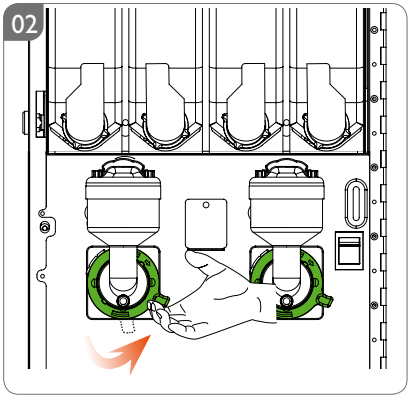
Weekly cleaning

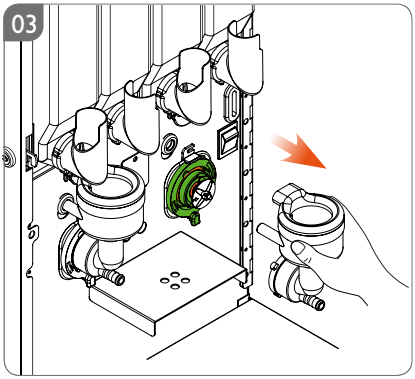
Disassemble mixing system



◀ Loosen or take out canisters and pull out the outlet hose.

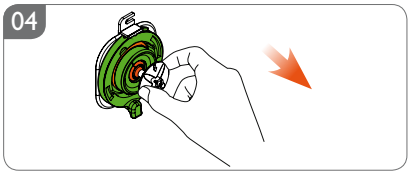
▼ Turn the mounting plate lever anticlockwise.

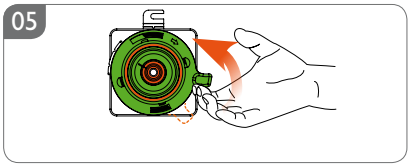




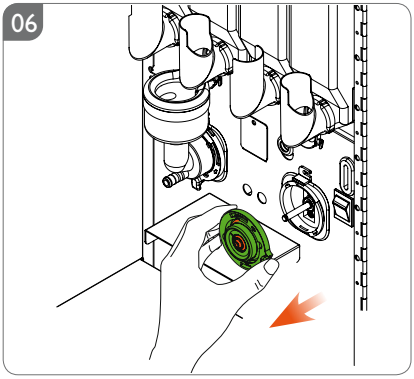
◀ Loosen the mixing bowl by pulling it straight out.

▼ Loose the whipper by pulling it straight out.





▲ Loosen the mounting plate. Turn the lever anticlockwise, until it stops.



▲ Pull the mounting plate straight out.

Reassembling mixing system
See the next page

Weekly cleaning

Wash these parts

Mixing bowl

Condensation trap

Mounting plate

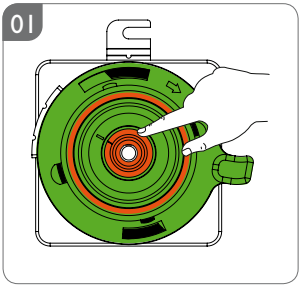
Whipper

Clean with a moist cloth and wipe dry.

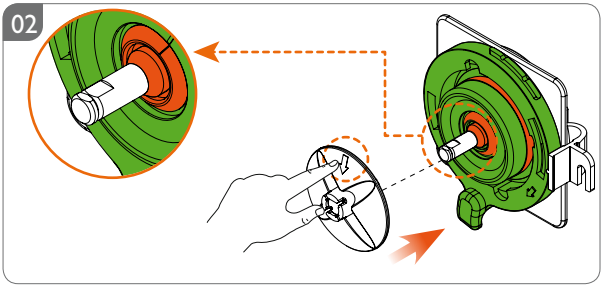
★ **All parts must be dry before reassembly.**

Reassemble mixing system

01

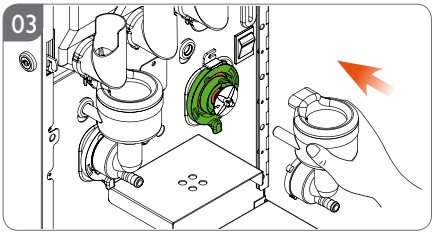


02

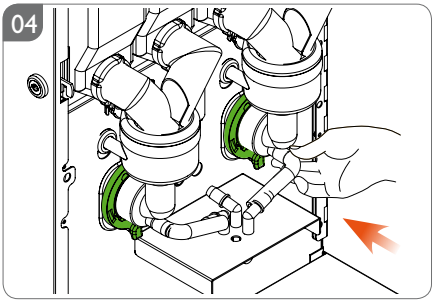


▲ Check all seals (red) before reassembly of parts.

03



04



▲ The flat side of the whipper shaft must correspond with the marked arrow on the whipper.

To fit the whipper push onto the shaft until a click sound can be heard. It is only possible to assemble the whipper in one way.

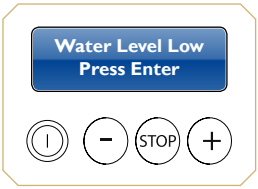
◀ Fix the mixing bowl and condensation trap. Push-fit the mixing bowl and fix with lever.

◀ Connect the outlet hose.

Note	Ensure that all water hoses have been connected and fitted.

Failure message

Failure messages which can mostly be corrected without any help from service company



- Display shows Water Level Low Press Enter Check if water tap is open.

  Then press the E button.

- Display shows normal, but no drink is coming.
  Possible cause of failure:
  Mechanical stop in the ingredients canisters or mixer unit.

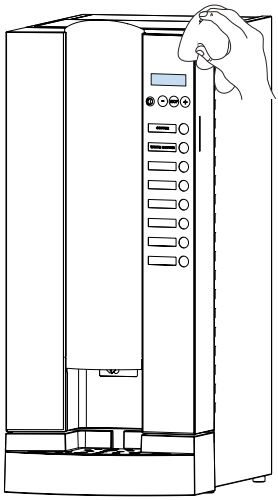
  Action: Try to find the cause of failure. Clean the mixer system and try again.

Storage / Transport

Preparation for transportation or long term storage

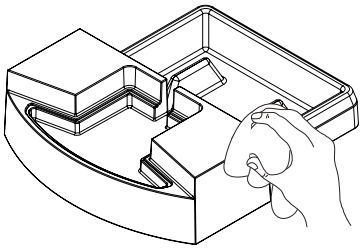
- Turn off the switch, pull out the electric plug and close incoming water tube.
- Long machine storage at temperatures below 0°C can cause damage of the machine.
- Empty all the water in the machine by opening the service lid between the mixer bowls. Pull out the hose, remove the plug and let all water pour out. Reassemble the plug and lid.

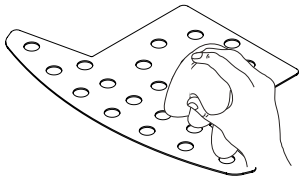
Exterior cleaning



- Cleaning the outside
- Use a soft rag and liquid cleaning agent to prevent scratches.

Note	The machine must not be covered with or immersed in water.





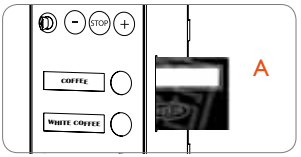
- To be washed as needed
- Drip tray and drip tray insert should be washed by hand in ordinary dishwater.
- Do not wash in a dish washing machine!

WARNING MESSAGE SHOWN ON DISPLAY

Message on display	Indication
Not Available	Drink can not be selected as pot.
Heating Water Please Wait...	Low temperature in the water tank, the machine is heating up (blocked).
Low Water Level Press Enter Key	Low water level in water tank. Press enter key to start filling up the water tank.
Filling Water Please Wait...	The machine is filling water.
Temperature	Shows actual temperature in water tank
Energy Saving Mode	The machine is in energy saving mode.
Warning Low Temperature	Temperature is low, it is still possible to dispense drink.
Low Temperature Blocked	Temperature is low, the machine is blocked.
Empty Drip Tray	The drip tray is full of water.
Overcurrent	Overcurrent, some component is using to much current, try to locate the component and replace it.
Error: Water Supply	The water has not reached the correct level in the water tank. Check the water tap, restart the machine.
Error: Water Level Pins	Check the level sensor, cable failure, level pins connected incorrect, too much scale or residue on the level pins.
Bev. Disabled	The drink has been disabled
Please Wait	Shows when drink is dispensing
Door Open	The door is open, Close door to proceed.
Error: Temp.Sensor	Tempsensor damaged, faults in cables
Error: Check Heater	Solid state defect, heater defect. Output on 1/0 boardvv is defect.

Activate programming with smart card

- Insert the technical service card in the card reader(A).
- Display shows **Service Menu Clean Machine**



Buttons function

→ Press this button if you wish to leave the submenu and return to the main menu.

E Press the ENTER button if you want to enter a menu, alter the value or a setting.

Alter a value by pressing the + or − button.

Confirm the new setting by pressing the E-button.

\+ Press this button if you wish to increase a value or step forward in the menu.

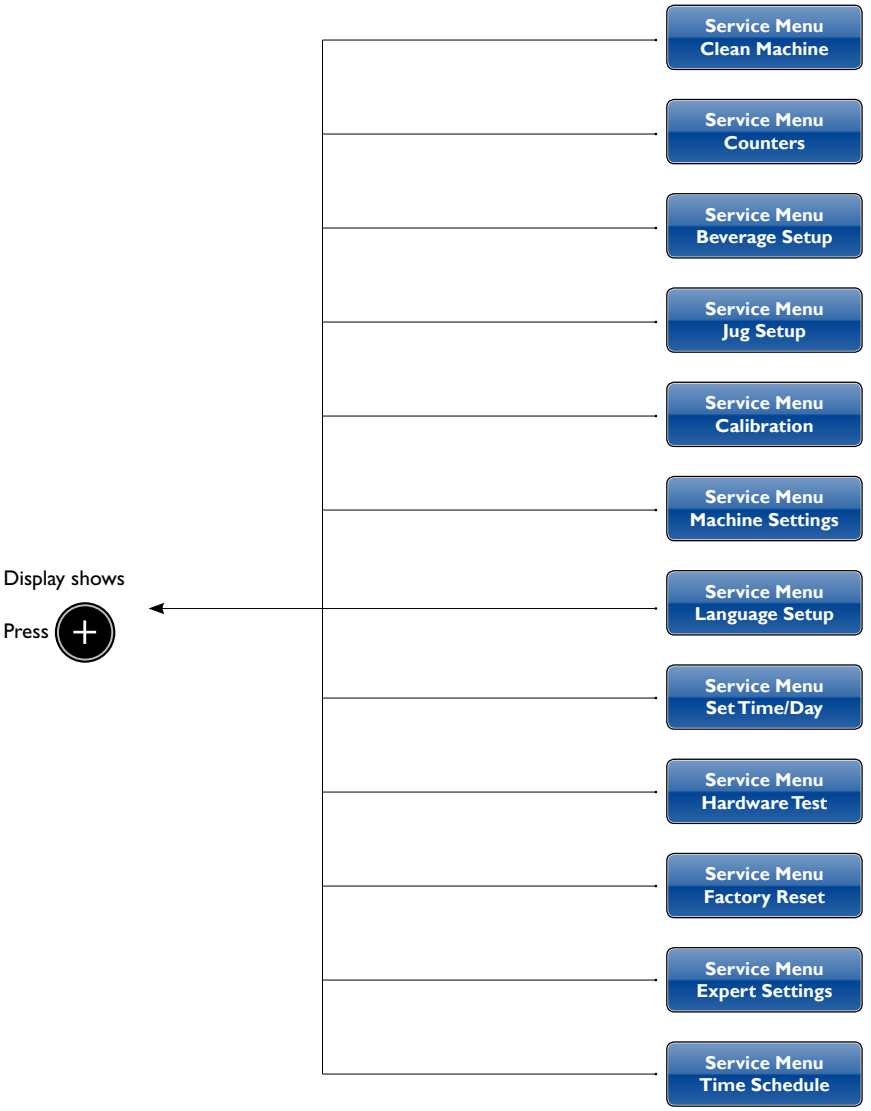
− Press this button if you want to reduce a value or go back in the menu.

STOP Press the STOP button if you wish to return to the service menu.

Note	Values displayed in this section as ### is fixed values for display. Values displayed in this section as <XXX> can be changed.

Main menu

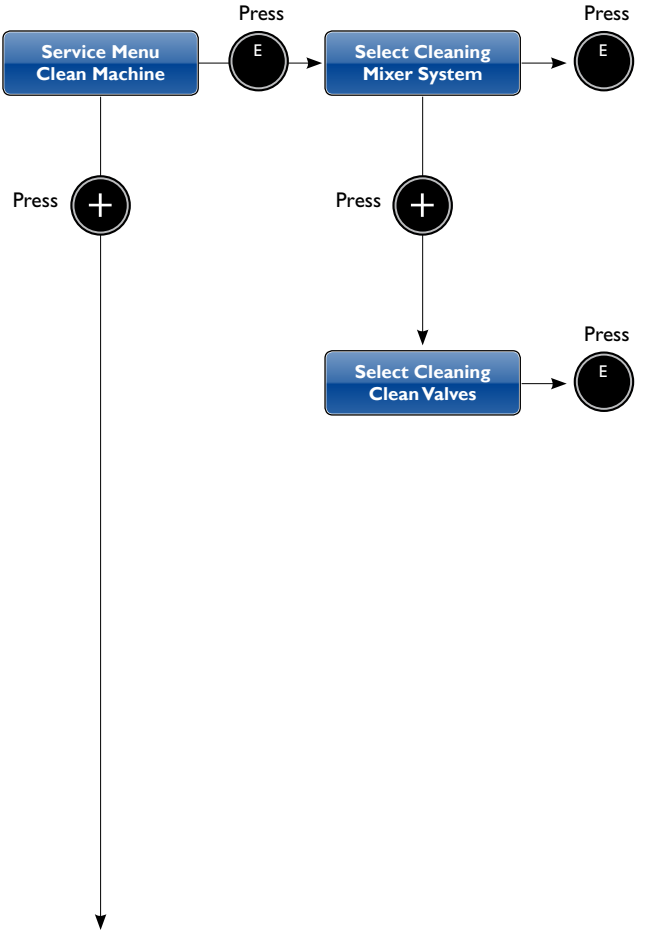
Overview



Clean machine

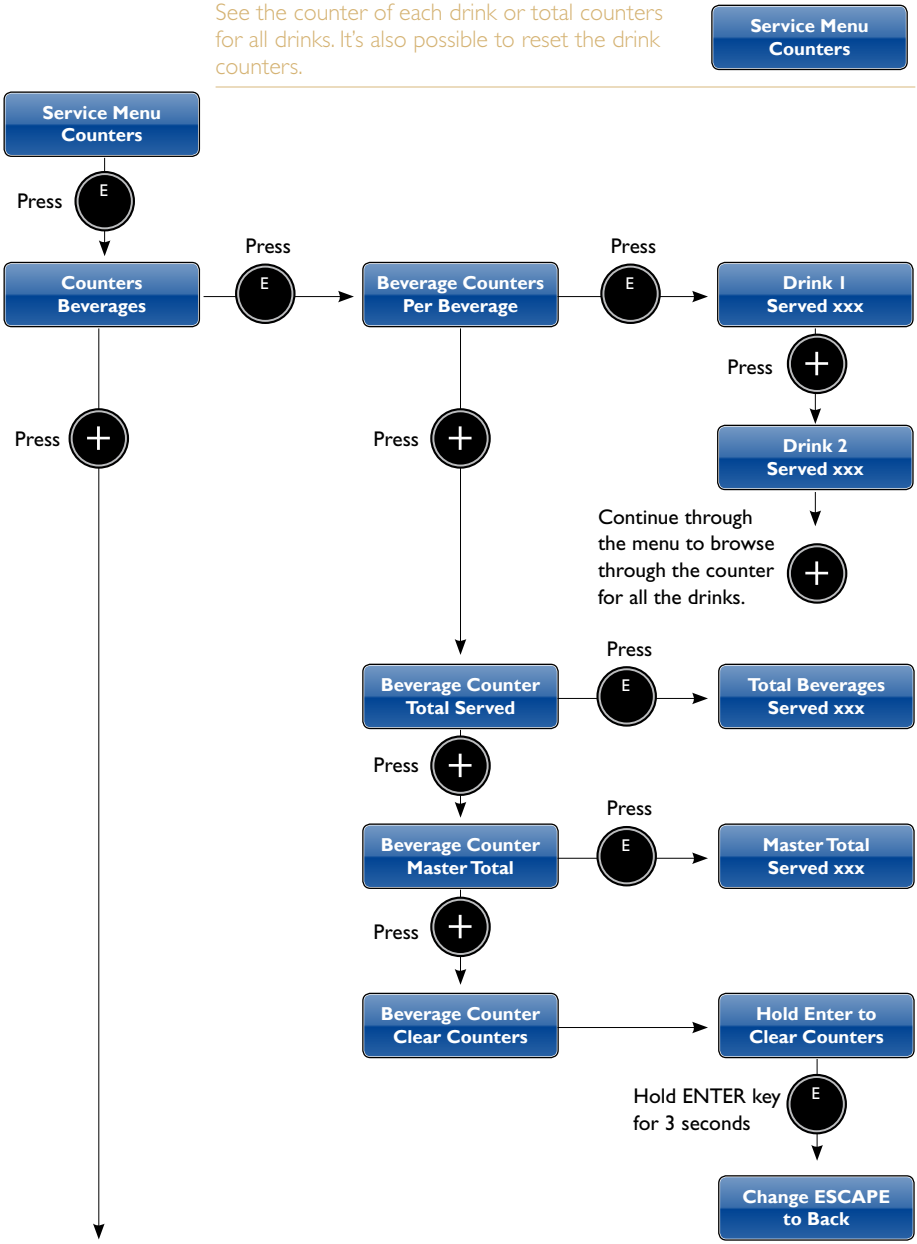
Perform cleaning of the machine.

Service Menu
Clean Machine



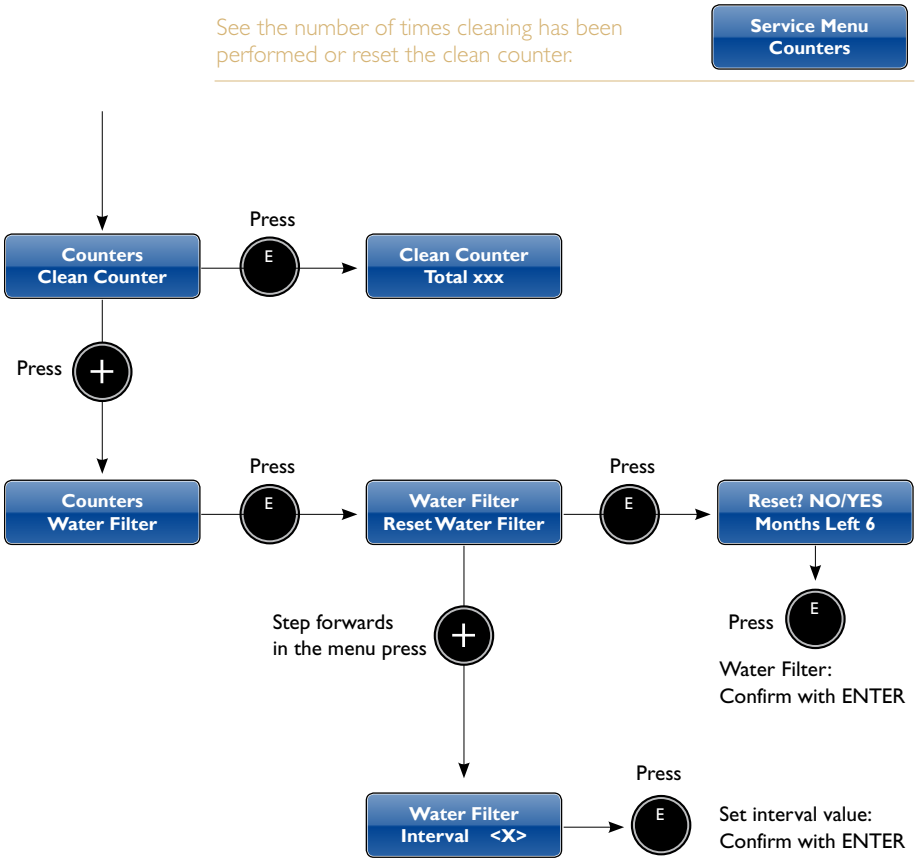
Counters

See the counter of each drink or total counters for all drinks. It's also possible to reset the drink counters.



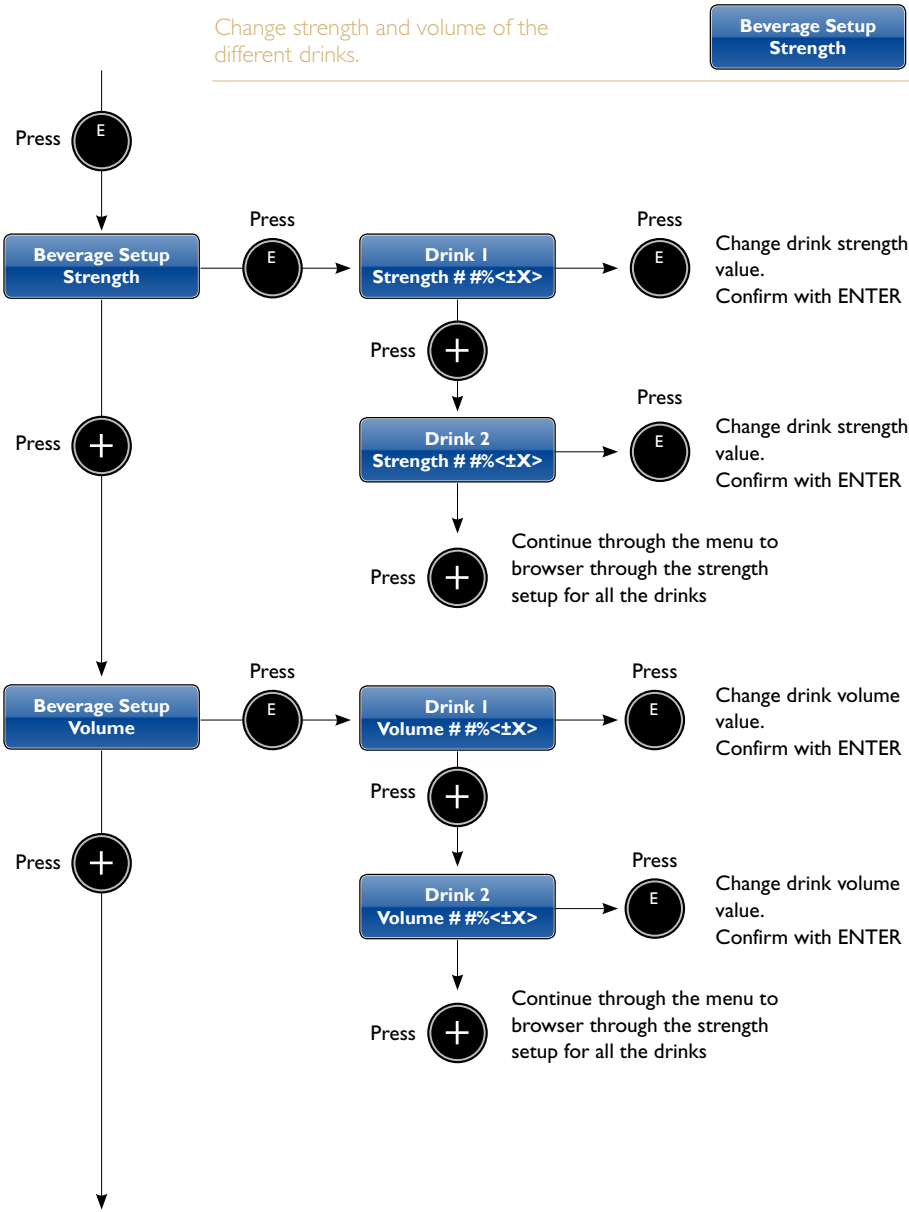
Counters

See the number of times cleaning has been performed or reset the clean counter.



Beverage setup, Strength and Volume

Change strength and volume of the different drinks.

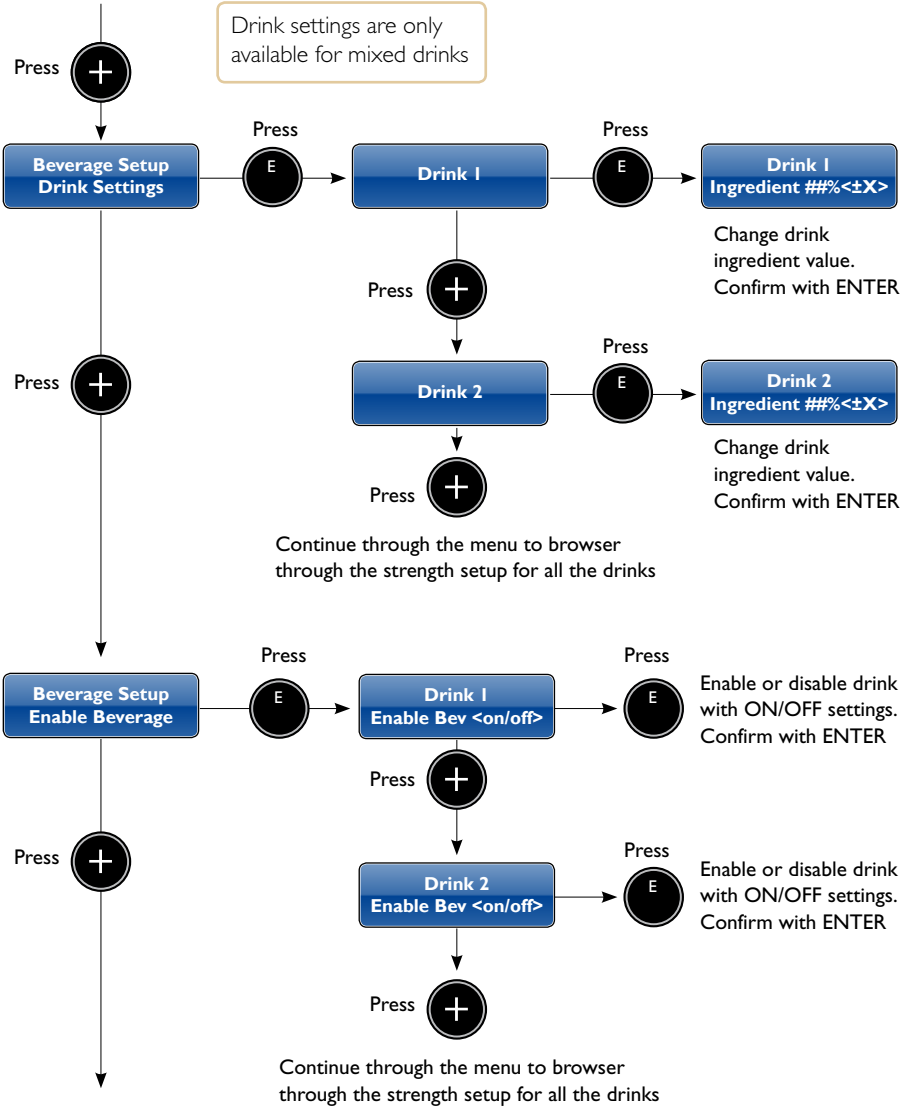


Beverage setup, Drink Settings and Enable Beverages

Change drink settings and disable drinks.

Beverage Setup
Drink Settings

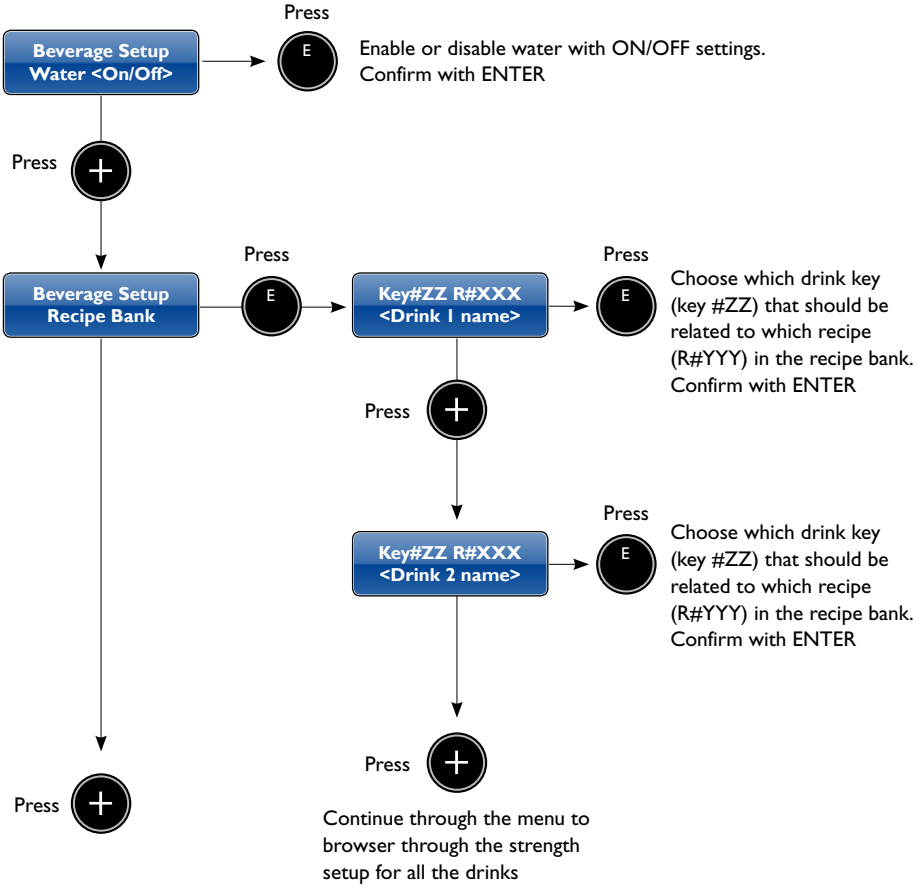
Drink settings are only available for mixed drinks



Beverage setup,Water and Recipe Bank

Turn the water ON/OFF and enter recipe bank.

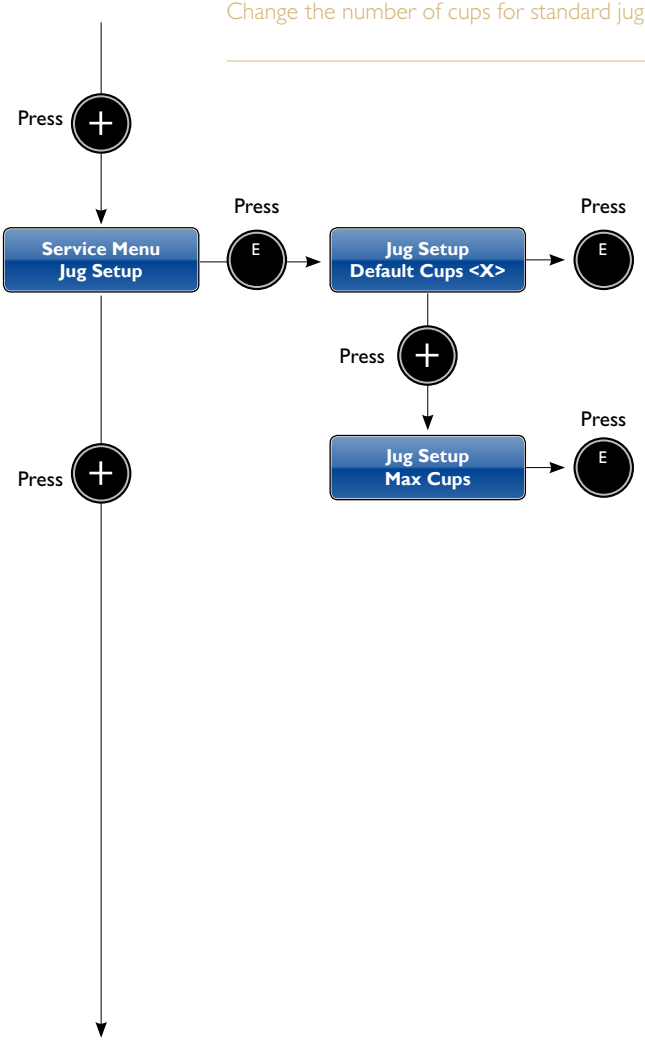
Beverage Setup
Water <On/Off>



Jug setup

Change the number of cups for standard jug.

Service Menu
Jug Setup



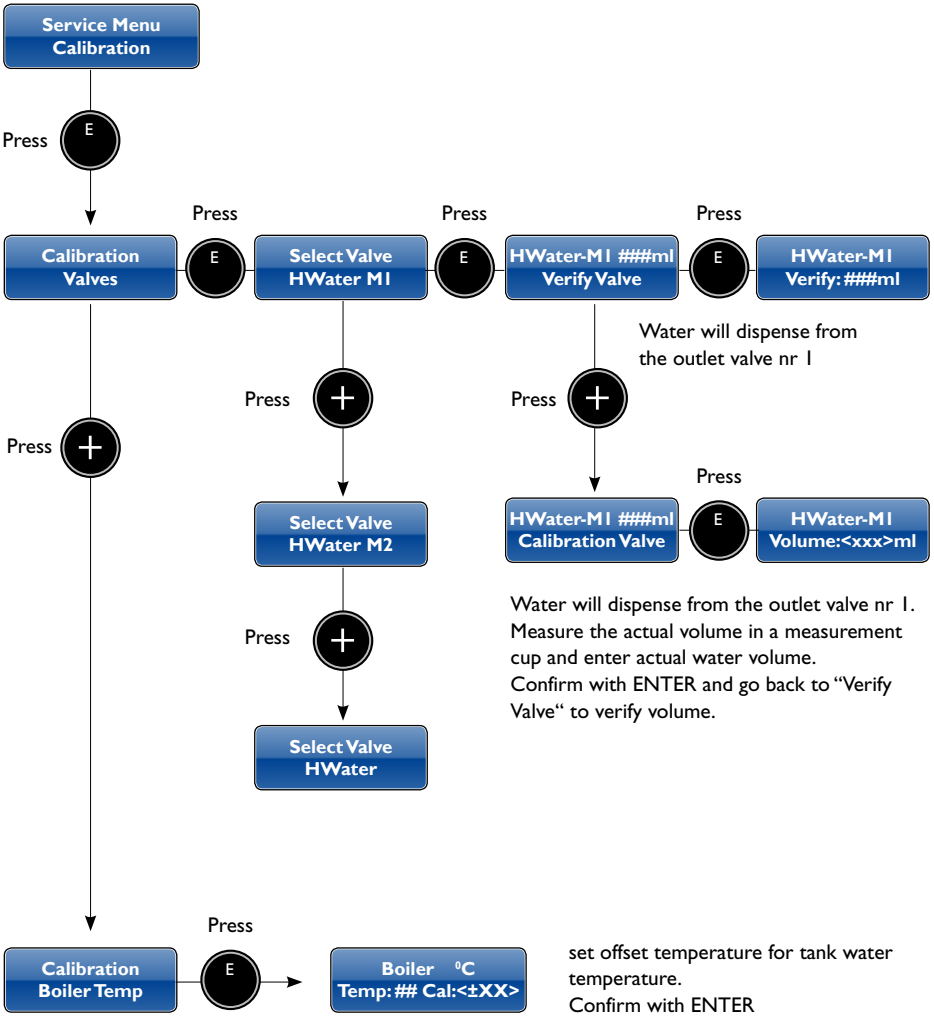
Choose the amount of cups to be used as standard when you enter jug mode.
Confirm with ENTER

Choose the maximum allowed amount of cups to be used when brewing into a jug,Value set here rules the maximum allowed cups in "Defaut cups" choice above.
Confirm with ENTER

Calibration

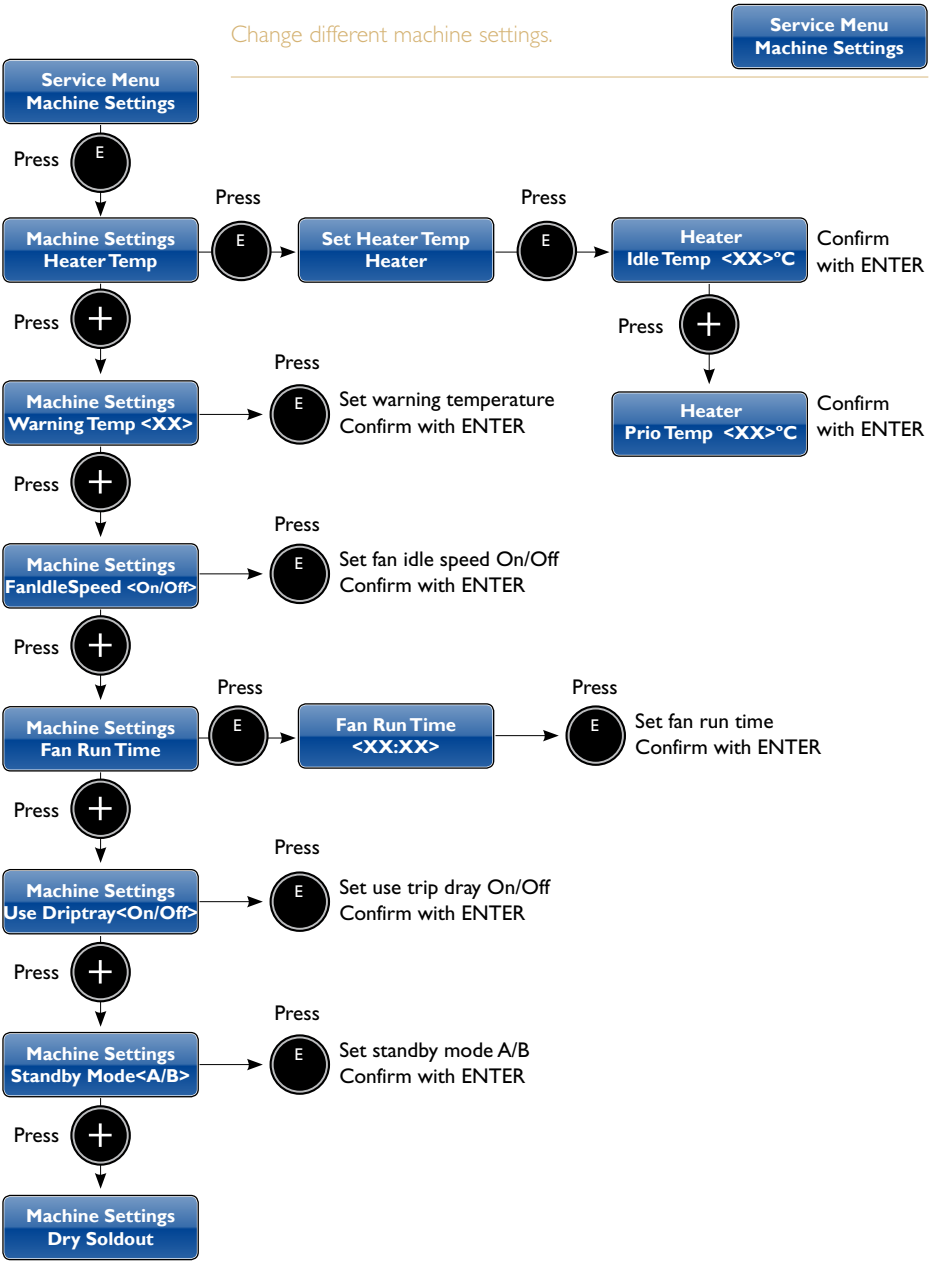
Change calibration settings of the machine.

Service Menu
Calibration



Machine settings

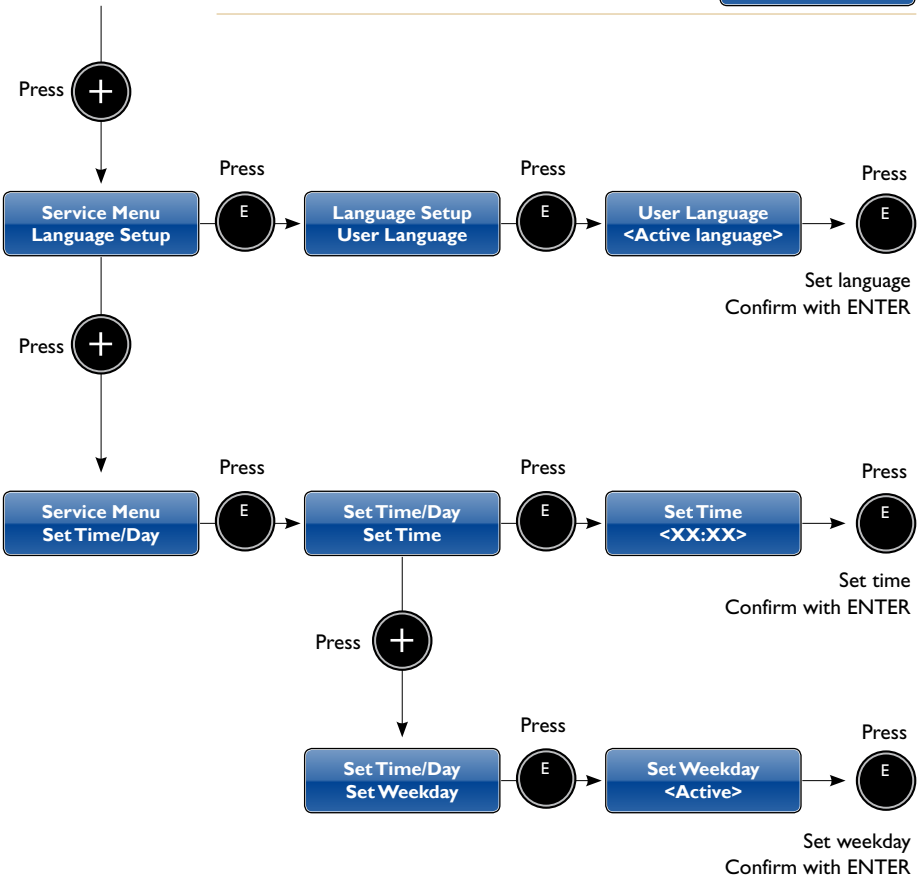
Change different machine settings.



Language setup and set time & day

Change language or update time/day.

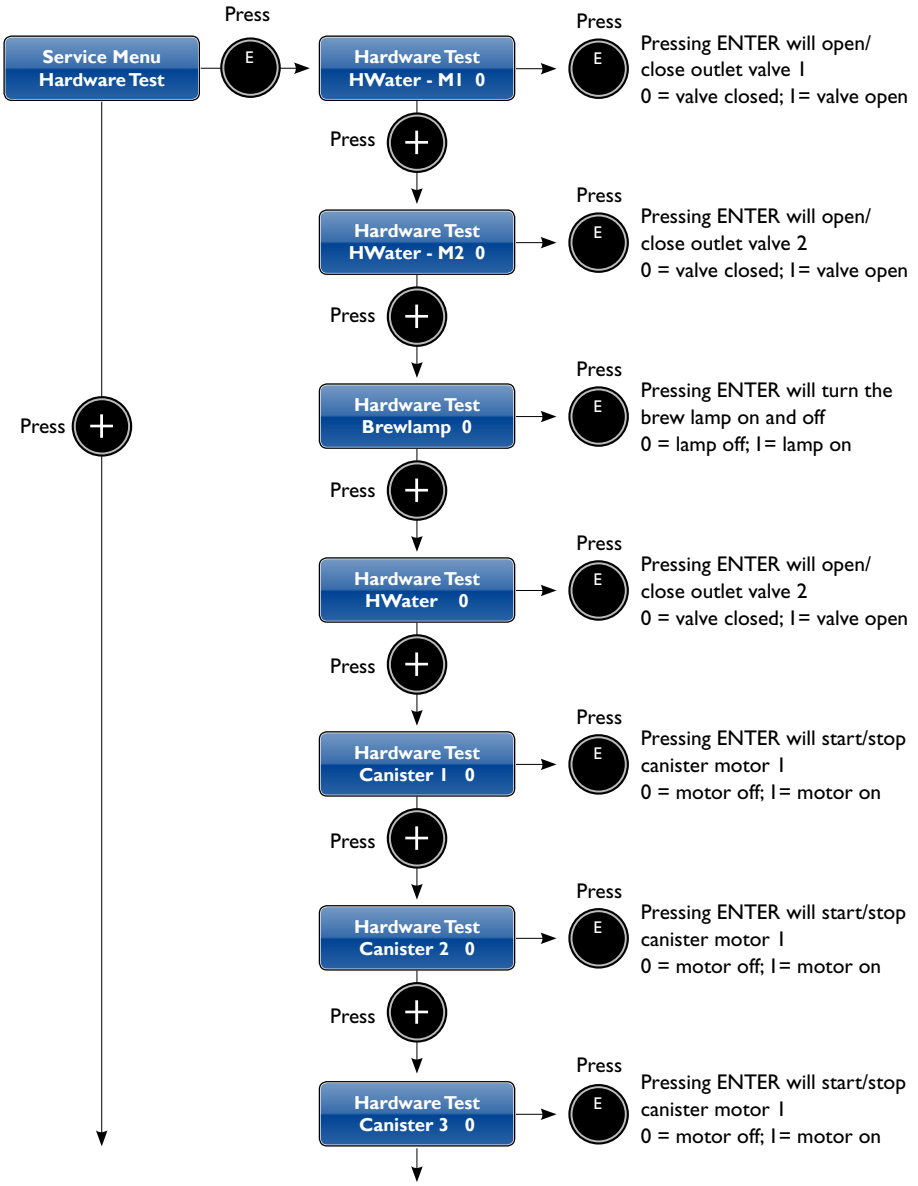
Service Menu
Language Setup

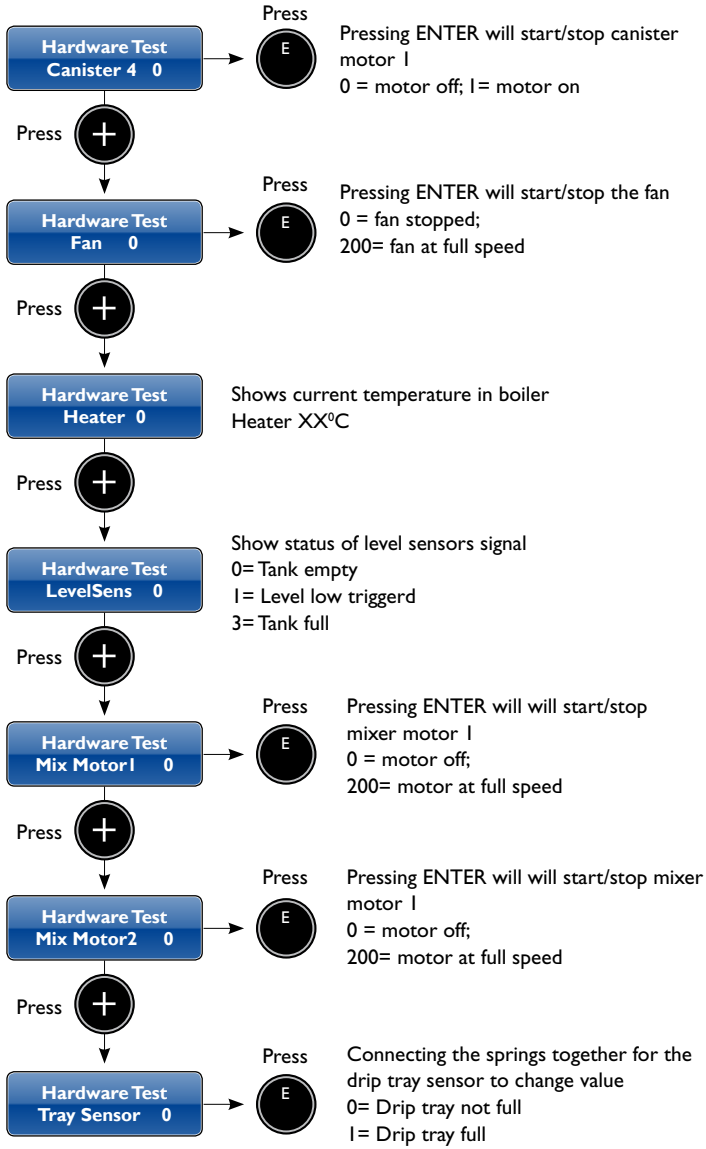


Hardware Test

Test different components in the machine.

Service Menu
Hardware Test

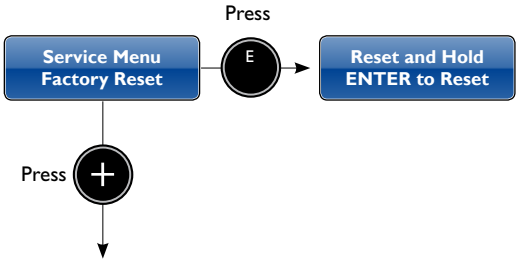



Hardware Test
Canister 4 0
Press
E
Pressing ENTER will start/stop canister motor 1
0 = motor off; 1= motor on
Press
+
Hardware Test
Fan 0
Press
E
Pressing ENTER will start/stop the fan
0 = fan stopped;
200= fan at full speed
Press
+
Hardware Test
Heater 0
Shows current temperature in boiler
Heater XX°C
Press
+
Hardware Test
LevelSens 0
Show status of level sensors signal
0= Tank empty
1= Level low triggerd
3= Tank full
Press
+
Hardware Test
Mix Motor1 0
Press
E
Pressing ENTER will will start/stop mixer motor 1
0 = motor off;
200= motor at full speed
Press
+
Hardware Test
Mix Motor2 0
Press
E
Pressing ENTER will will start/stop mixer motor 1
0 = motor off;
200= motor at full speed
Press
+
Hardware Test
Tray Sensor 0
Press
E
Connecting the springs together for the drip tray sensor to change value
0= Drip tray not full
1= Drip tray full

Factory Reset

How to perform a factory reset of the machine.

Service Menu
Factory Reset

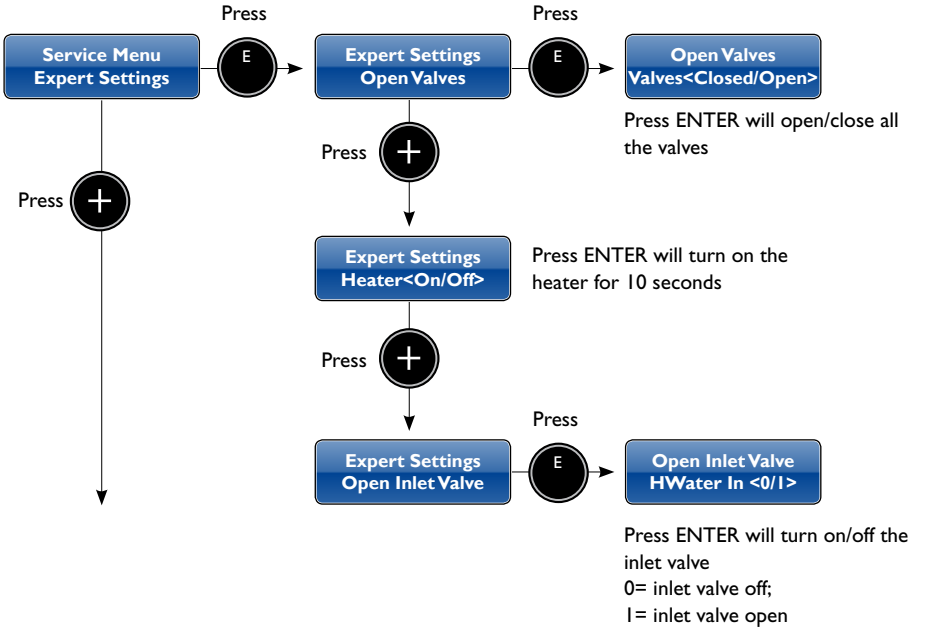


Press ans hold ENTER for 3 seconds
Machine will go back to factory settings
and reboot

Expert settings

Test expert settings of the machine.

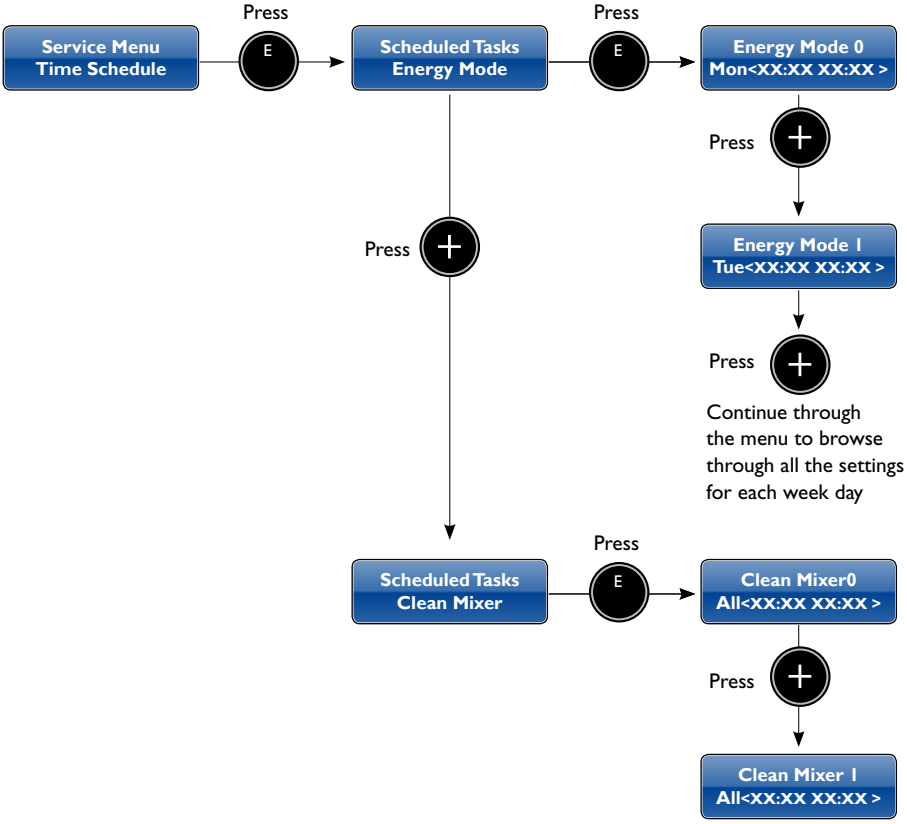
Service Menu
Expert Settings



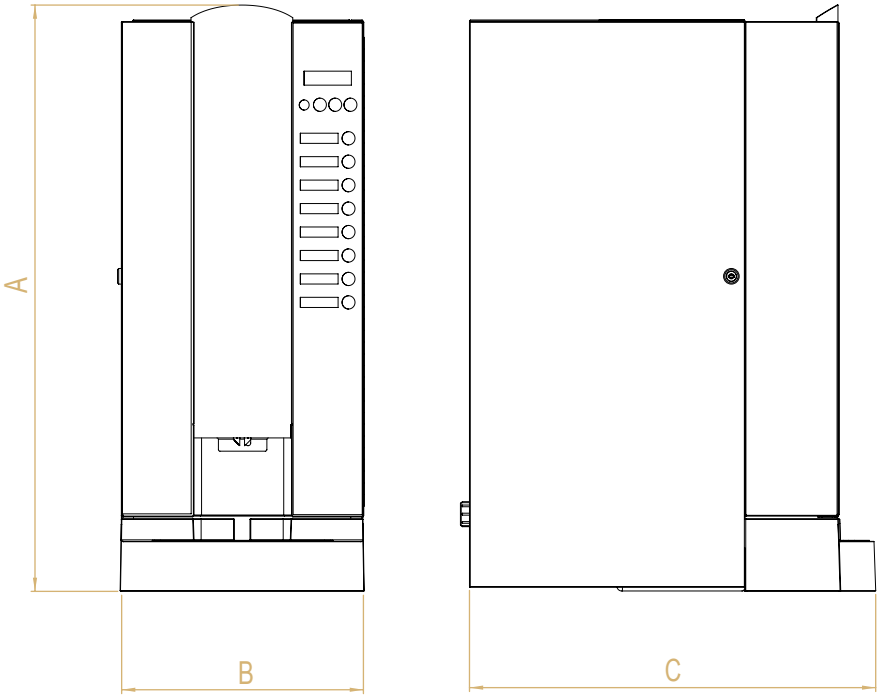
Time schedule

How to setup a schedule for energy mode and cleaning.

Service Menu
Time Schedule



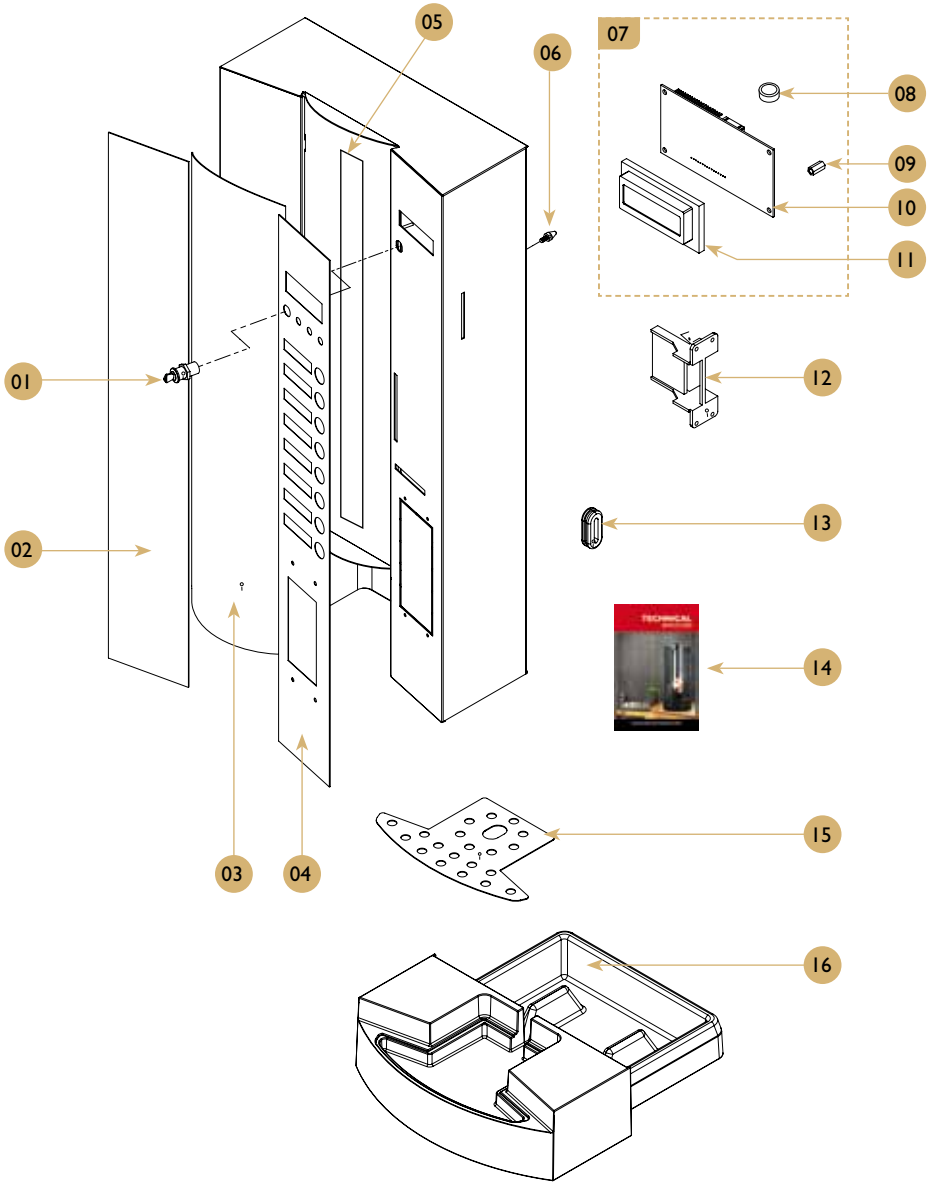
Café Elite



Model	A	B	C
Café Elite II	735mm	310mm	515mm
Café Elite III	735mm	310mm	515mm
Café Elite IV	735mm	310mm	515mm

Door

Drawing



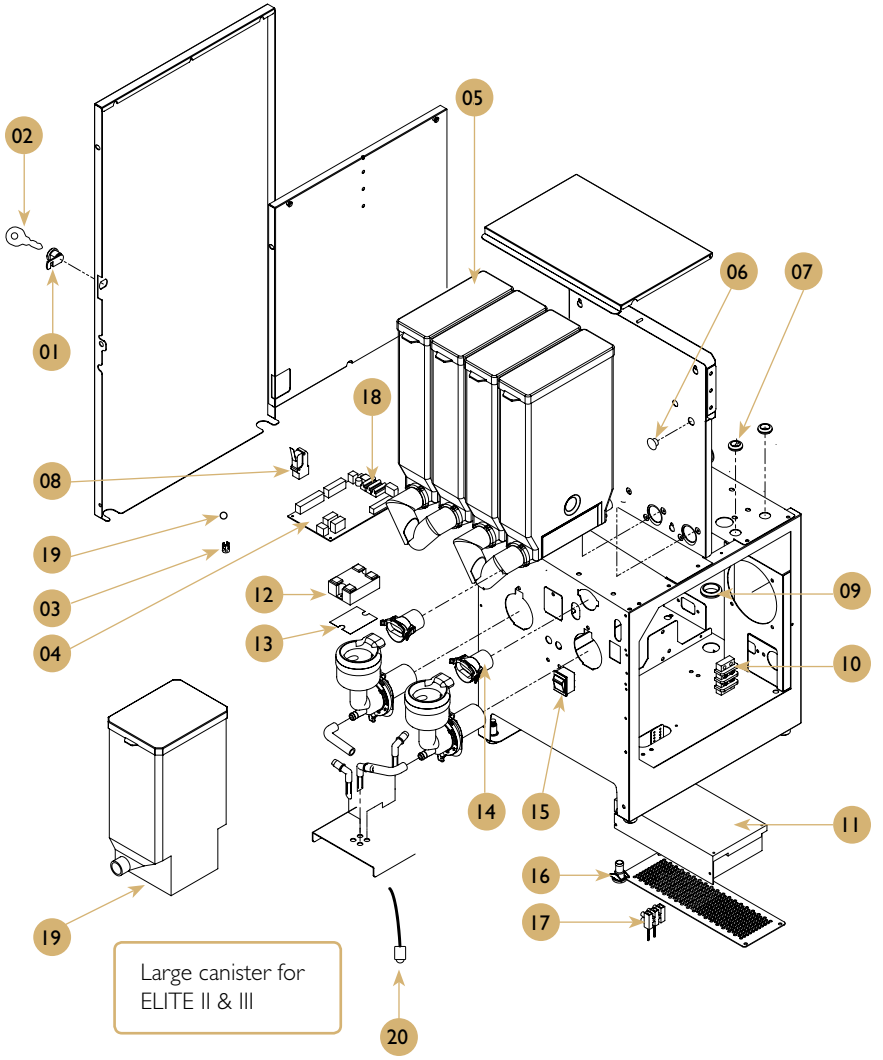
Door

Spare parts list

POS.	PCS	Part No.	Description
01	1	1202551	Key switch
02	1	1665009	Left overlay
03	1	1665002	Middle printing film
04	1	1665001	Membrane switch
05	1	710028	LED complete
06	1	180115	Guide pin, door
07	1	710556	PCB UC and display 2x16 complete
08	1	1604119	Battery CR 1220 3V
09	4	1604113	Spacer for UC merisc
10	1	1604117	PCB display board UC-meric
11	1	1604122	Display 2x16
12	1	1602697	Card reader
13	1	1605401	Grommet
14	1	1660009	Smart card red
15	1	260067	Drip tray insert
16	1	1264007	Drip tray

Machine 1

Drawing



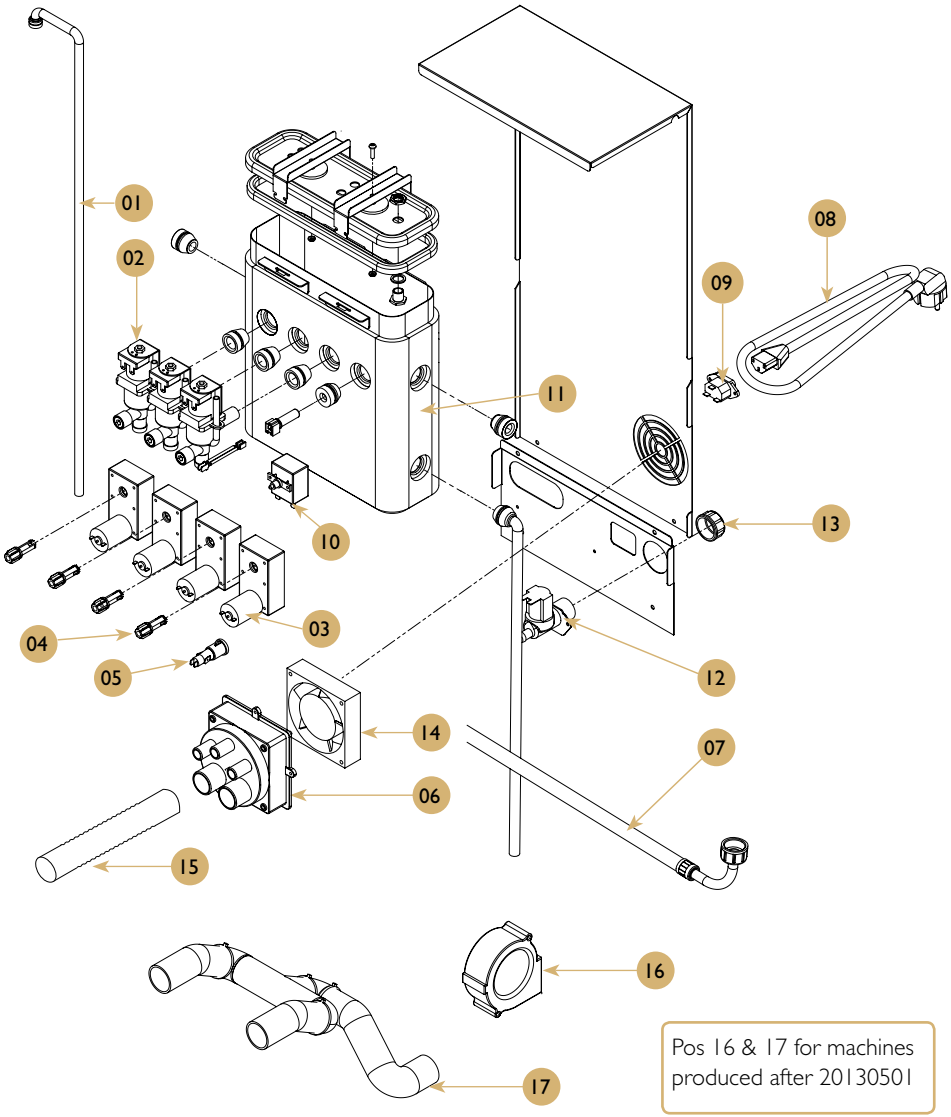
Machine 1

Spare parts list

POS.	PCS	Part No.	Description
01	1	120250	Key lock
02	1	120251	Key for Lock of Door
03	1	1206121	Non return valve holder
04	1	1604111	PCB main board IO-TE
05	4	1205626	Canister W67 H335
06	1	1505076	Rubber plug,10mm
07	2	120465	Rubber TPG 20.5
08	1	160841	Door microswitch
09	1	160536	Rubber TRP 30.0
10	1	1602414	Terminal block
11	1	1031652	Power supply 150W
12	1	1604203	Solid state 25A
13	1	1206581	Seal solid state
14	2	1604836	Hose adapter for mixing system
15	1	160801-04	Rocker switch
16	1	1206706	Bulkhead adaptor
17	1	1205500	Spring level sensor
18	1	1604384	Fuse 5 AT
19	1	1205630	Canister W137 H335 Complete
20	1	1608710	LED Diod

Machine 2

Drawing



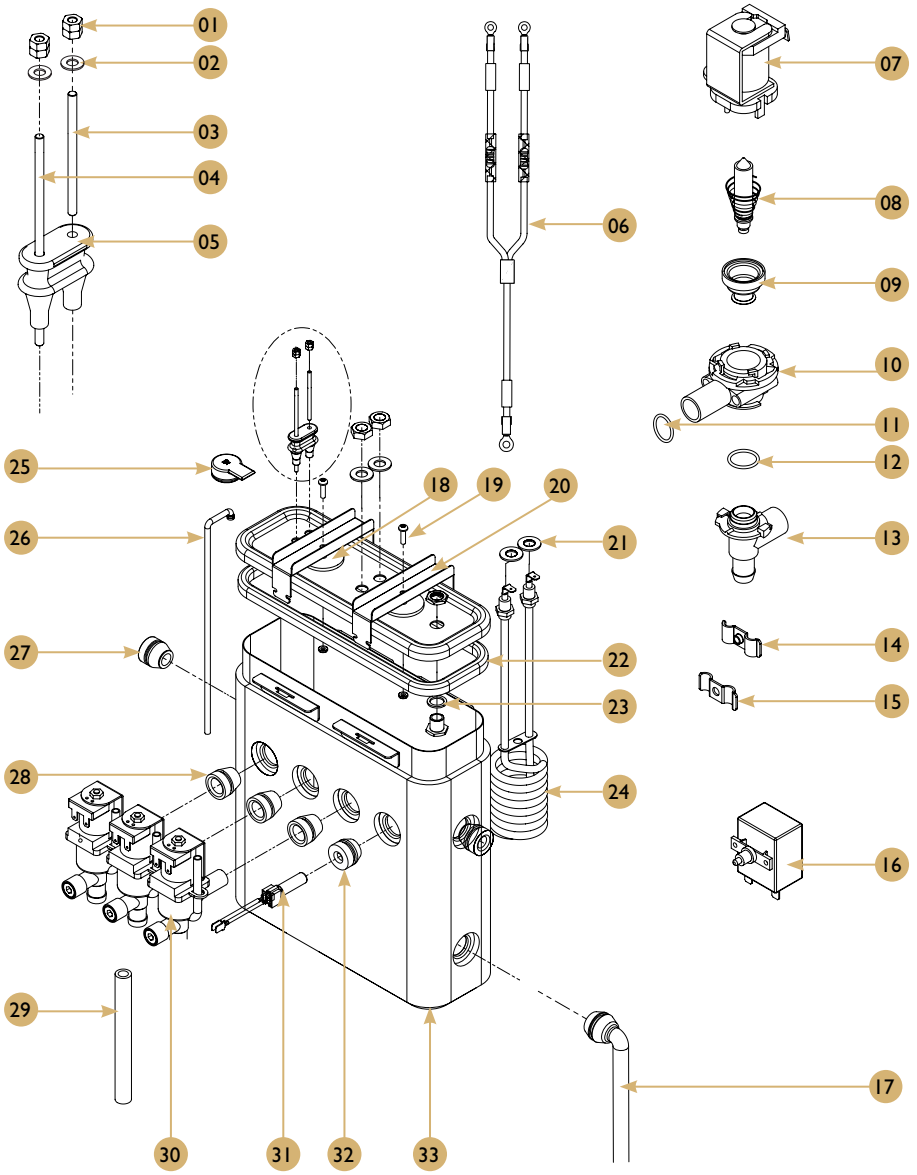
Machine 2

Spare parts list

POS.	PCS	Part No.	Description
01	1	1561015	Over flow pipe
02	3	1206290	Outlet valve deltrol 24VDC
03	4	1604612	Motor gear 145RPM
04	4	1604614	Drive shaft 16mm
05	1	1604351	Fuse assembly
06	1	1604179	Fan holder
07	1	1505042	Inlet hose with connect
08	1	160565	Power cord Europe 16A/230V
09	1	160570	Main socket
10	1	220220	High limit switch
11	1	1263501	Water tank 5L complete
12	1	1206371	Single valve 2.5L 24VDC
13	1	1403401	Inlet valve plug
14	1	1604171	Fan 24VDC
15	1	1604174	Fan connection tube
16	1	1604151	Centrifugal Fan 24V 0.24A RBH7530B2
17	1	1561055	Air Flow Tube Cafe Elite

Tank

Drawing



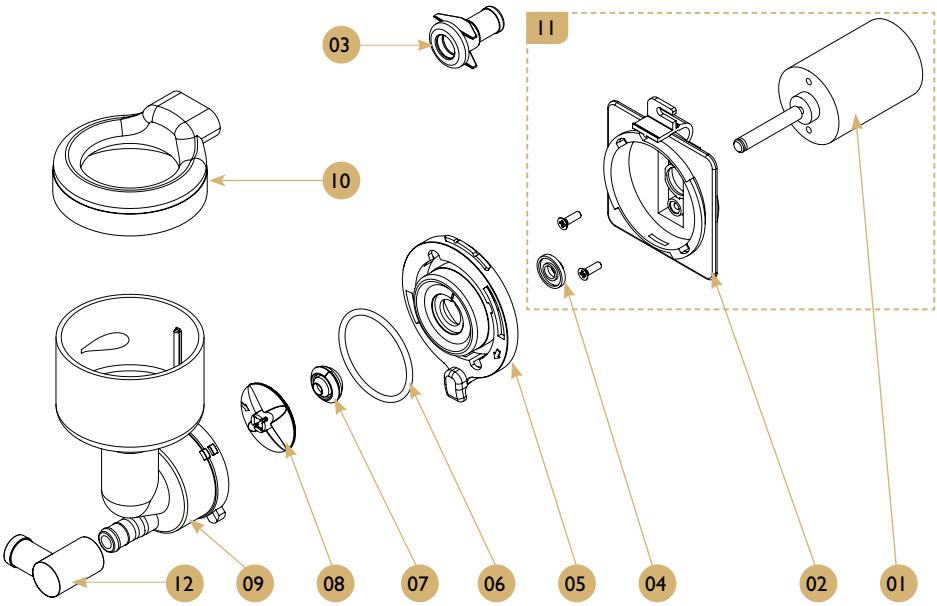
Tank

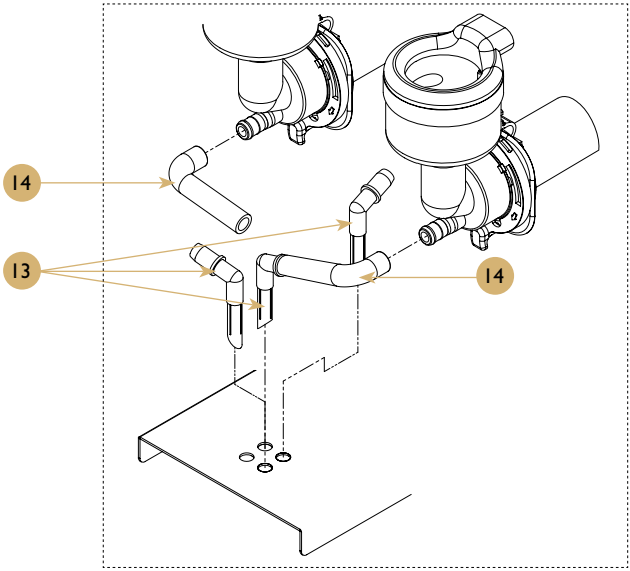
Spare parts list

POS.	PCS	Part No.	Description
01	1	1401101	Nut M3 SS A2
02	1	1461008	Spring washer M3
03	1	1364026	Sensor short 60mm
04	1	1205301	Sensor long 90 mm
05	1	1605362	Double seal level sensor
06	1	1666013	Harness water level sensor
07	1	1660057	Valve coil 24V DC black
08	1	1660058	Valve metal plunger and spring
09	1	1501193	valve silicone plunger
10	1	1660060	Valve upper body
11	1	1206452	O-ring adjustment screw
12	1	1206451	Valve body o-ring
13	1	1660062	Valve lower body
14	1	260851	SS clamp holder left
15	1	260852	SS clamp holder right
16	1	220220	High limit switch
17	1	1561014	Inlet pipe tank
18	1	250433	Tank washer
19	1	1402003	Screw M4 x 16mm
20	1	260144	Tank lid fixture
21	1	1206507	Fiber washer
22	1	1561012	Seal gasket tank
23	1	1206505	Gasket for HI switch ber 16.8x12.4
24	1	1601311	Element 2200W/230V with SS nuts
25	1	1605363	Silicone plug
26	1	1561015	Overflow pipe
27	2	160538_03	Plug for water outlet
28	3	1561010	Seal for outlet valve
29	1	150501	Tube silicone 8-12mm
30	1	1206290	Outlet valve black 24V
31	1	1604135	NTC thermistor
32	1	1605361	Seal for NTC
33	1	1201295	Insulation 5L tanks (black 15mm)

Mixing system and outlet

Drawing





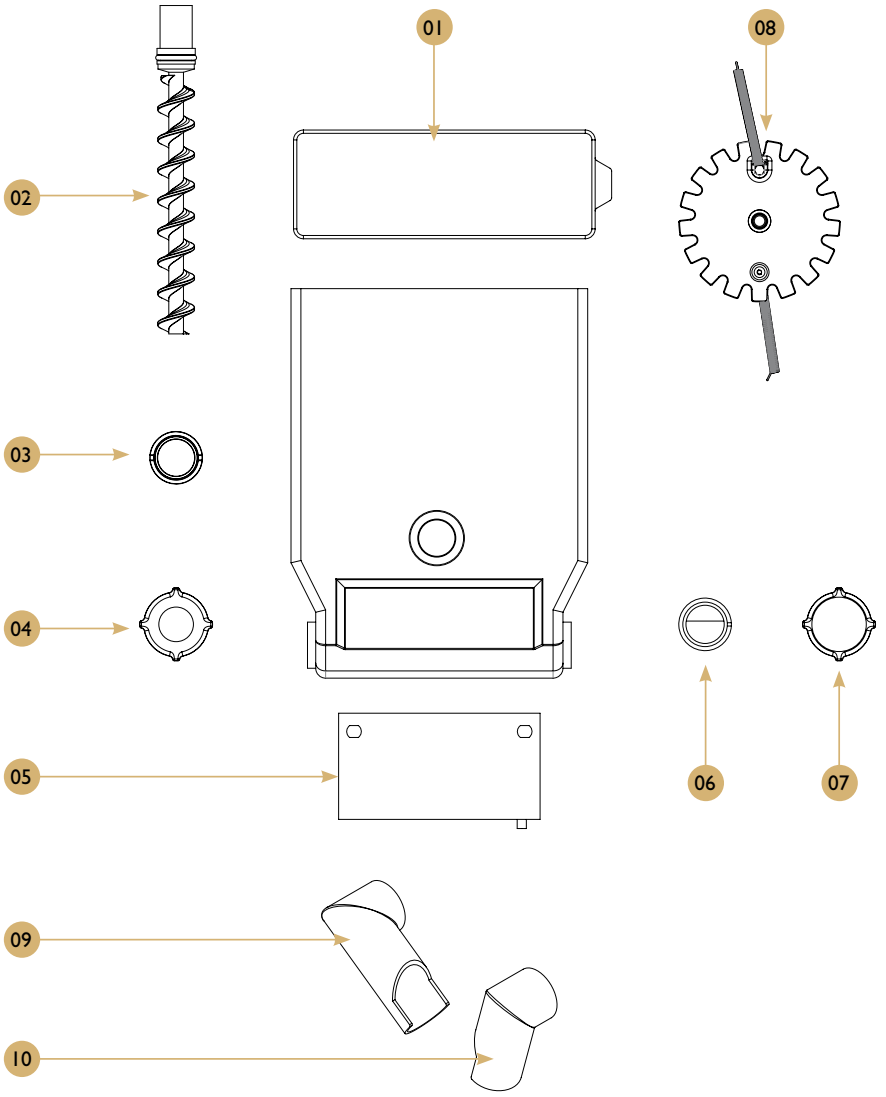
Mixing system and outlet

Spare parts list

POS.	PCS	Part No.	Description
01	1	1604591	Motor whipper 24V DC
02	1	1206701	Motor whipper plate
03	1	1206706	Bulkhead adaptor black
04	1	1604804	Slinger disc
05	1	1206702	Mounting plate
06	1	120638	O-ring
07	1	120655-02	Whipper shaft gasket
08	1	1206703	Whipper
09	1	1206704	Mixing bowl black
10	1	1206707	Steam trap black
11	1	7001111	Whipper motor complete
12	1	1206705	Outlet elbow mixer bowl
13	3	1201411	Angle of outlet
14	2	1031501	Elbow tube

Canister

Drawing

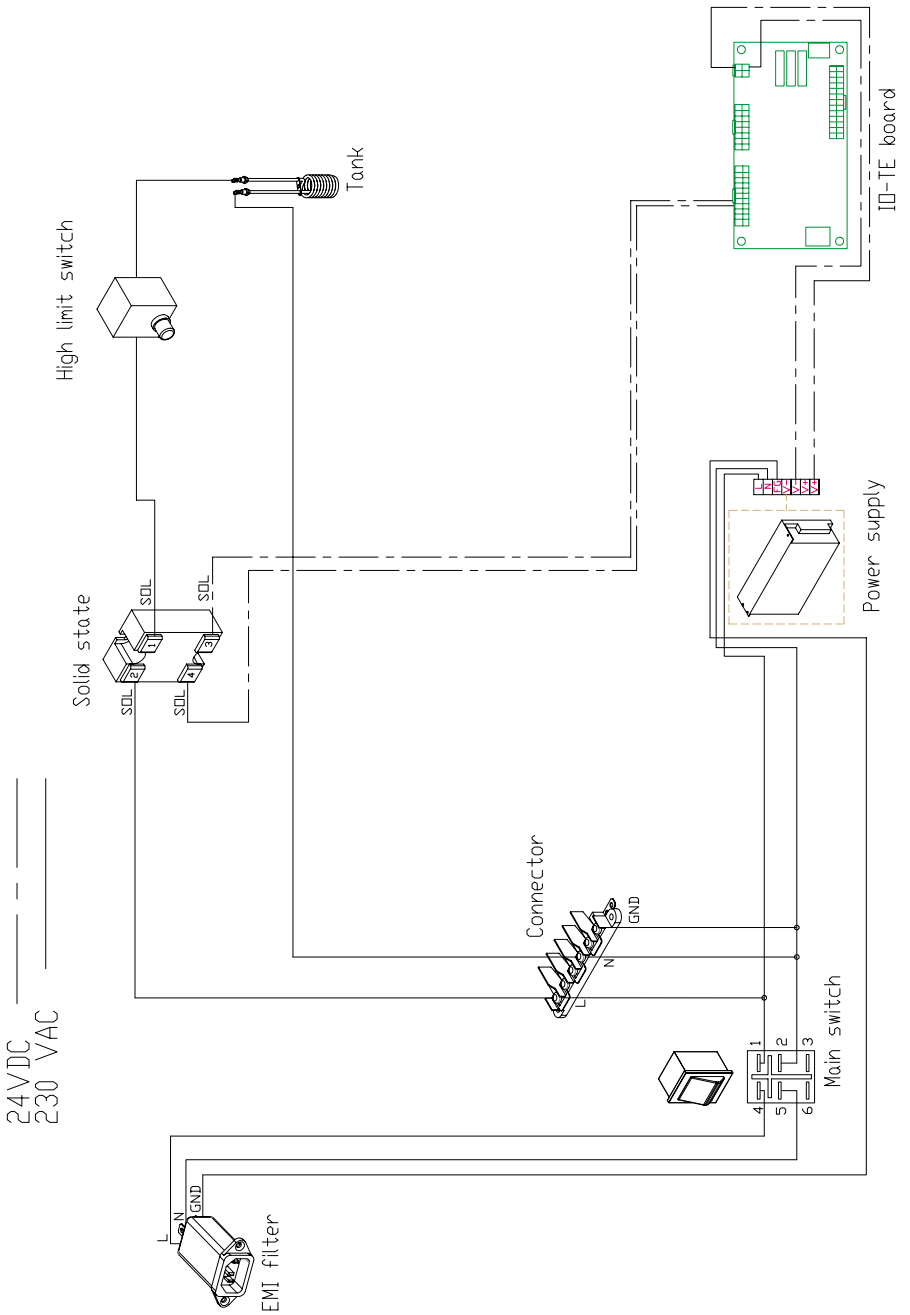


Canister

Spare parts list

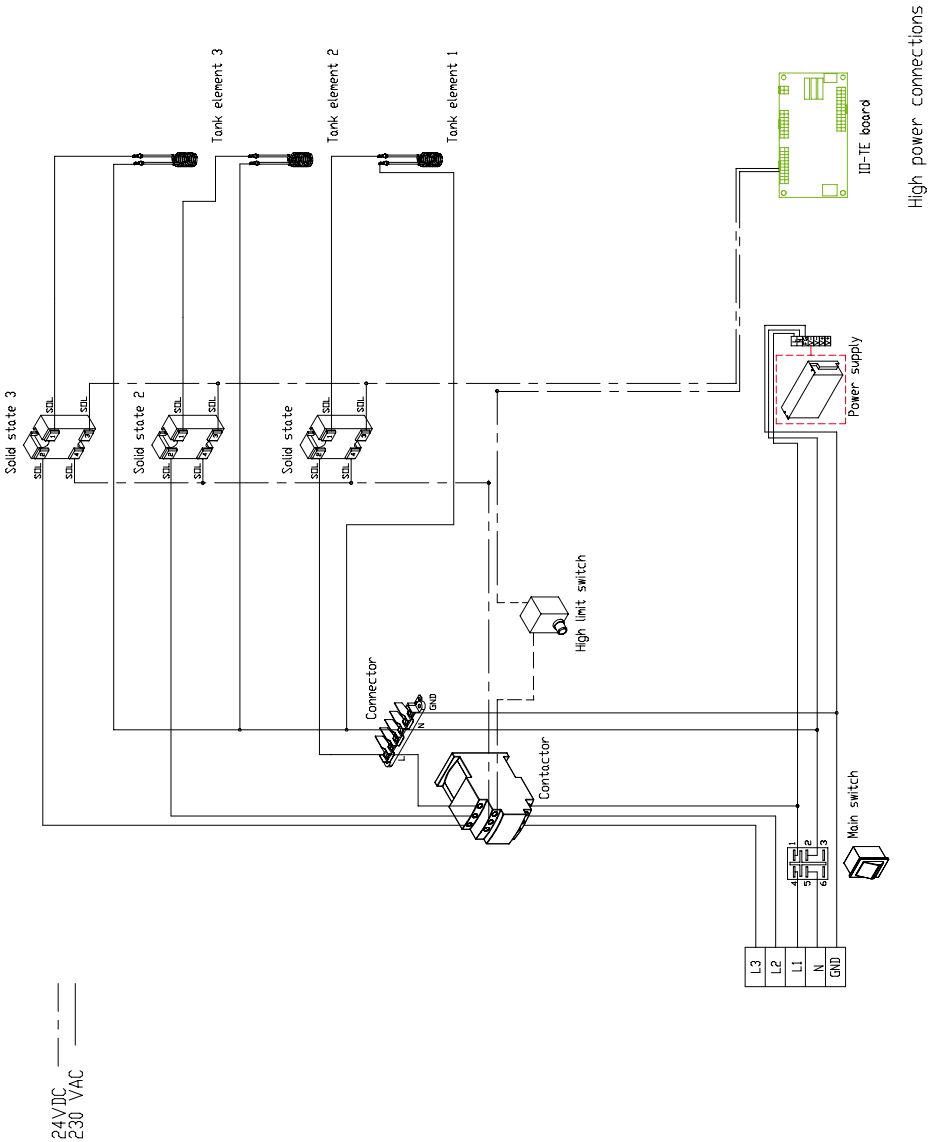
POS.	PCS	Part No.	Description
01	2	1204953	Lid for canister W67
02	3	1204715	Auger
03	3	1204776	Auger holder
04	3	1204777	Auger nut
05	2	1204722	Canister base W67
06	3	120633	Outlet
07	3	1204775	Plastic nut for auger
08	3	1204746	Agitator
09	1	120489	Canister W64 pipe destra 7cm L/H
10	1	120493	Canister W64 pipe destra 7cm R/H

High Current

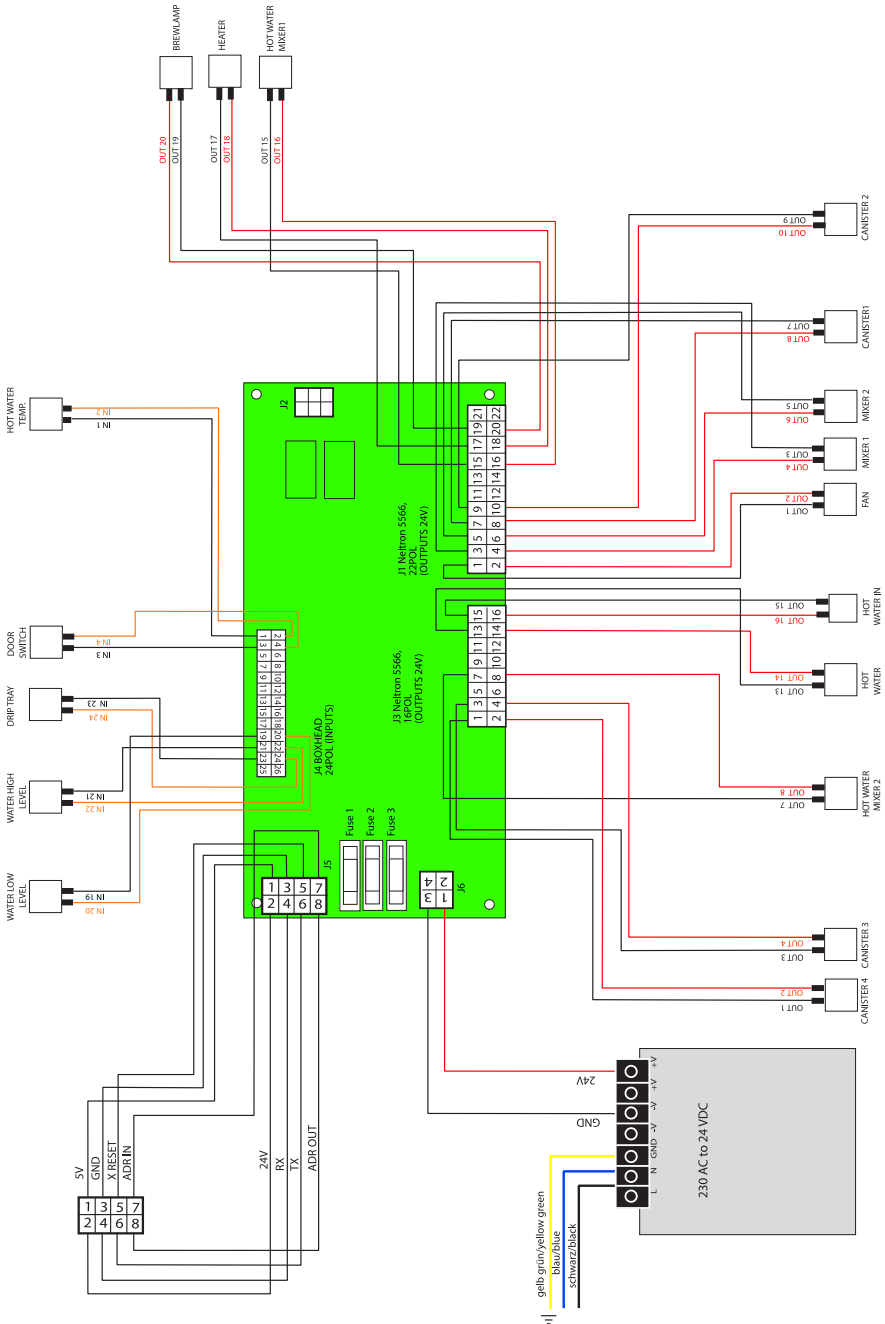


CIRCUIT DIAGRAM

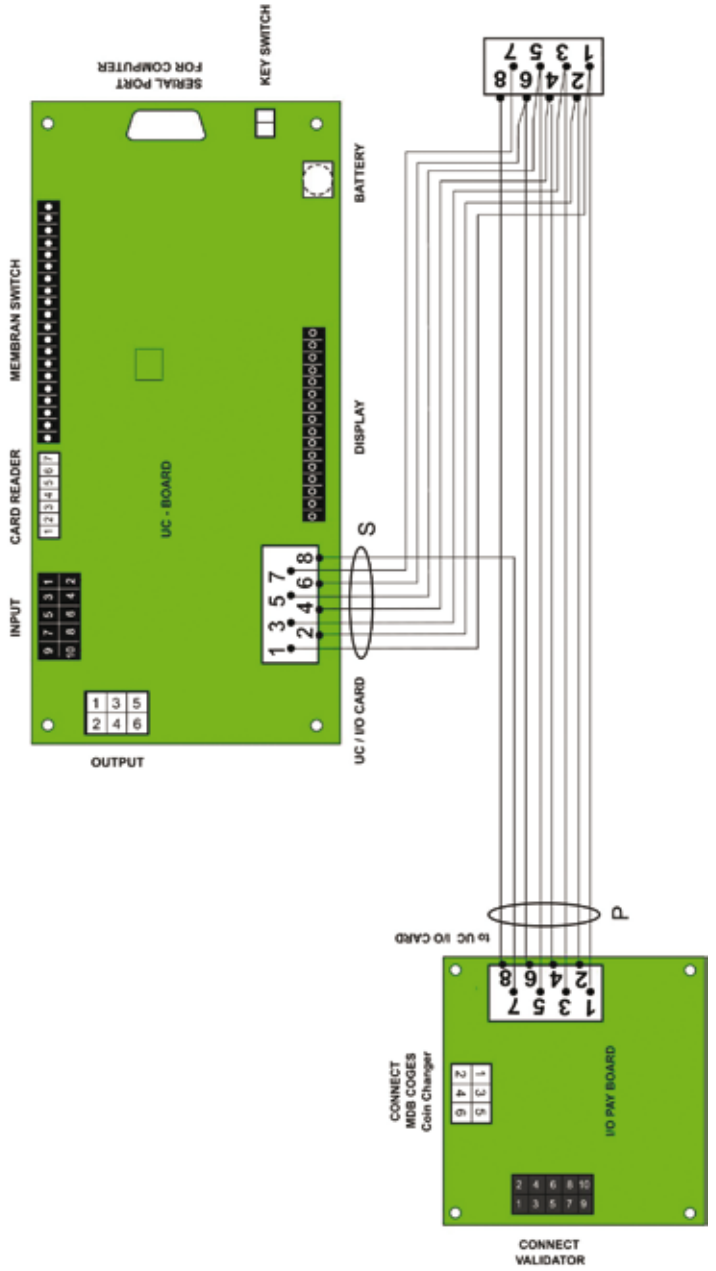
High Current 3-phase



IO-Board Outputs



Ucmerisc and IO-pay board



For the warranty to be valid the conditions for maintenance must have been followed according to our instructions, proper precaution has been made and warranty claim been issued without delay.

The affected equipment may not be used during awaiting service if there is any risk that the damage or defect would worsen.

The warranty will not cover consumption supplies such as glassware, normal maintenance such as cleaning of filters, contaminations in water, lime, incorrect voltages, pressure or adjustment of water amounts.

The warranty will not cover damages of defects caused by incorrect handling and operation of the appliance.

FOR SERVICE

Please contact your dealer

Your Dealer

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